

CURRICULUM VITAE



KAMARUDIN HUSSIN

1. PERSONAL PARTICULARS

Name : Brig. Jen. Datuk Prof. Emeritus Dr. Kamarudin Hussin

Gender : Male

Date of Birth : 10 Februari 1955

Place of Birth : Kuala Lumpur

Nationality : Malaysia

Marrital Status : Married

Number of children : 4

Designation : Professor Emeritus

Field of Specialization : Extractive Metallurgical Engineering /Mineral Processing

E-mail : hussin.kamarudin@gmail.com

2. ACADEMIC/PROFESSIONAL QUALIFICATION

ORGANISATION/INSTITUTION	HIGHER QUALIFICATION	YEAR
Universiti Sains Malaysia	B.Sc. (Hons) – Chemical	1979
Universiti Sains Malaysia	MSc-Electrochemical	1982
Universiti Sains Malaysia and Kalgoorlie School of Mines, Australia	PhD – Material Engineering (Extractive Metallurgy)	1993

3. RESEARCH WORK EXPERIENCES

POSITION	ORGANISATION/INSTITUTION	YEAR
Professor Emeritus	Universiti Malaysia Perlis (UniMAP)	February 2016 till now
Board of Directors of the University	Universiti Malaysia Perlis (UniMAP)	April 2018
Board of Directors of the University	Universiti Sultan Zainal Abidin, Terengganu	April 2017 till 2018
Advisor to the Minister of Higher Education	Minister of Higher Education	February 2016 till February 2018
Vice Chancellor	Universiti Malaysia Perlis (UniMAP)	February 2007 till 2016 (From KUKUM to UniMAP)
Rector	Kolej Universiti Kejuruteraan Utara Malaysia (KUKUM)	16 February 2002 till Februari 2007
Director	Engineering Campus Universiti Sains Malaysia	May 2001 till February 2002
Dean	School of Materials and Minerals Engineering, Universiti Sains Malaysia	1996 till May 2001
Deputy Dean	School of Materials and Minerals Engineering, Universiti Sains Malaysia	1994 - 1996
Deputy Dean	School of Materials and Minerals Engineering, Universiti Sains Malaysia	1989 – 1991
Lecturer, Associate Professor & Professor	School of Materials and Minerals Engineering, Universiti Sains Malaysia	1986 hingga 2001
Programe Chairman	Matriculation Centre, Universiti Sains Malaysia	1984 – 1985
Lecturer	School of Chemical, Universiti Sains Malaysia	1982 - 1985

4. TEACHING FIELD

- 4.1 Crystallography & Bonding in Solids
- 4.2 Polymer and Composites
- 4.3 Analytical chemistry
- 4.4 Engineering Materials
- 4.5 Physical chemistry of materials
- 4.6 Hydrometallurgy
- 4.7 Mineral chemistry laboratory
- 4.8 Mineral processing engineering lab
- 4.9 Materials characterization of engineering materials
- 4.10 Materials characterization
- 4.11 Materials characterization lab
- 4.12 Phase diagrams and equilibria

5. RESEARCH FIELD

- 5.1 Research Activities (list as appendix 1)
- 5.2 Patent (list as appendix 2)

6. PUBLICATIONS FIELD

- 6.1 Impact Journal (list as appendix 3)
- 6.2 Index Publication (list as appendix 4)
- 6.3 Journal Article (list as appendix 5)
- 6.4 Book (list as appendix 6)
- 6.5 Book Chapter, Paper and Poster Presentation (list as appendix 7)
- 6.6 Proceeding and Conference (list as appendix 8)
- 6.7 Research Technical Report (list as appendix 9)
- 6.8 Research Non - Technical Report (list as appendix 10)
- 6.9 H-Index, Research Gate Score, dan Cumulative Impact Factor

Scopus Database

Initial nama: Kamarudin, H. - h-index: 32
- Number of documents : 363

Google Scholar Database

Initial nama: Kamarudin,H - h-index: 37
- Citation : 5377

Research Gate Database

Initial nama: Kamarudin,H - h-index: 31
Research Gate Scores : - 41

7. POSTGRADUATE SUPERVISION *(list as appendix 11)*

8. CONSULTATION *(list as appendix 12)*

**9. INVITED SPEAKER / FORUM PANEL/PRESENTER
*(list as appendix 13)***

10. CONTRIBUTIONS

(Whether in the community / organization / Professional / sports / welfare / social / religious movement at the local / international level)

- a. Board of Directors of the University , Universiti Malaysia Perlis (UniMAP), Perlis
- b. Board of Directors of the University, Universiti Sultan Zainal Abidin (UnisZA), Terengganu
- c. Advisor to the Minister of Higher Education
- d. Felo (FAsc) at Akademi Sains Malaysia (ASM 2017)
- e. Professor Emeritus at Universiti Malaysia Perlis.
- f. Chairman UniMAPcare clinic.
- g. As UniMAP Vice Chancellor, we are able to share new ideas in the world of higher education by introducing :
 - i. The Student Friendly (RPS) concept is like Cambridge University,
 - ii. 7 Pillars + 'i=innovation', to enhance students' soft skills in an integrated way
 - iii. The Research Cluster 7 system that promotes interdisciplinary and transdisciplinary research has the potential to win over 100 medals at local and international research exhibitions,

- iv. ICT Based System 'Distributed' Campus Management System (previously awarded the Prime Minister's Quality Award - ICT category and high ranking at IPTA, Southeast Asia and the world by Webometrics),
 - v. integrating the Strategic and Quality Management System, and the Quality of Occupational Safety and Health to the Prime Minister's Quality Award
 - vi. develop the IPTA Level Critical Agenda Project until being appointed as the Industry-Academy CAP Chair by the Chief Minister of the KPT
 - vii. develops a higher education system that integrates mastery of theory and practical skills in the engineering and business program curriculum, and
 - viii. introduced UniMAP to the world through around 40 MoUs / MoAs with universities in Europe, West Asia, the Far East, and Asia Pacific until UniMAP managed to attract more than 200 international students of all levels.
- h. Appointed as Non-Executive Chairman of Astronautic Technology (M) Sdn Bhd (ATSB) effective May 19, 2015 for 3 years
 - i. Appointed as Technical Advisor for Human Capital Development for the Chuping Valley Development Area Development Plan from December 22, 2014.
 - j. Appointed Chairman of the IPTA Vice Chancellor / Rector of the Committee commencing March 2014 for 3 years
 - k. Appointed as a Committee Member of the South East Asia Sustainability Network (SEASN) from the 28th.
 - l. Appointed as the advisory panel for the Review of the National Higher Education Strategic Plan (PSPTN) by the Minister of Higher Education Malaysia, beginning 21st. Mac 2013
 - m. Chairperson of Perlis Professional & Intellectual Coalition (PROLIS) - Year 2012
 - n. Member of the National Higher Education Council (MPTN) - 1 November 2011 till 2016
 - o. Chairman of the Perlis Maju Secretariat 2015 ; year 2011 till 2015
 - p. Deputy Chairman, IPTA Vice Chancellor / Rector Rector, effective November 2011
 - q. Permanent Member of the Consulting Council of the Industrial Academy (AICC), 2010
 - r. Chair of the Academic Critical Agenda of the Academy, National Strategic Plan of Higher Education (PSPTN), 2010
 - s. Chairman of the Education Bureau of Malay World Islamic World (DMDI) Perlis - year 2010 till 2016

- t. Member, Premier Polytechnic Selection Committee, Ministry of Higher Education, 2010
- u. Member of the National Grid Committee, National Grid Coordinating Committee, 2009
- v. Member of State Council of State Youth Consultative Council Perlis Session 2, 16th Anniversary 2009
- w. Committee Members Towards Empowering Perlis Institute of Islamic Studies (IPTIPs), 2009
- x. Chairman, Malaysian Technical University Network (MTUN)- 2008-2010
- y. Member of the State Action Council (MTNg) Perlis – Since Rector KUKUM till 2016
- z. National Bureau of Speakers / Facilitators - 1995 to 2016. Has delivered over 60 lectures to schools and community members.
- aa. Chairman of the 11th General Election Monitoring Team of the Perlis Zone IPTA - 2004
- bb. International involvement:
 - i. Kopertis Wilayah Aceh (2015),Keynote Speaker. Innovative on the Approach Towards World Class University in Pulau Batam, Indonesia
 - ii. Founding Member of Asia Summer Program along with 4 other university Presidents from Korea, Japan, Thailand, Malaysia and Indonesia
 - iii. Ireland-Malaysia Joint Symposium (IMiEJS) – Founding Chair, Seminar for postgraduate students initiated by MyPSi and supported by the Ministry of Higher Education, linking not just UniMAP and AIT but IOTI and MTUN
 - iv. CHINANO Conference (2012) Suzhou, China. Invited Speaker on Towards Green Technology : Green Research in Malaysia
 - v. International Seminar on Geopolymer and Green Technology 2012 (SEAGATH) Medan, Indonesia, Keynote Speaker on Green Technology in Malaysia
 - vi. Fray Symposium, (2011) Cancun, Mexico, Invited Speaker. Towards Green Technology: Geopolymer Research in Malaysia.
 - vii. Seminar Nasional Informatika (SNIF) 2011, Medan Indonesia, Invited Speaker on the Development of ICT in a Technical University a New Paradigm.
- cc. Involvement in anti-drug programs:
 - (list as appendix 14)*
 - i. Appointed Head of Research at the Research of High Risk Student Drug Abuse in the Polytechnic (Sector of Higher Education), Ministry of Education Malaysia

- ii. Representing the Ministry of Higher Education for presenting four (4) findings of a drug abuse research report to the National Anti-Drug Cabinet Committee chaired by the Deputy Prime Minister
- iii. Presentation of the paper results from a drug abuse research study at Persidangan Asia Pacific Psychological Association Convention pada 4 – 7 Julai 2010 di Charles Darwin University Australia.
- iv. Appointed as CD7 Improvement Committee on Drug Free Work Steps by the National Anti-Drug Agency of Malaysia – 22 Februari 2010
- v. The co-chair of the IMT-GT Regional University Drug Abuse Dialogue organized by the Ministry of Higher Education and the University of Perlis Malaysia (UniMAP) from 26 to 28 November 2010 in Penang. Participants were University representatives and students in the Northern Territory of Indonesia, South Thailand and the Malaysian HEIs
- vi. Editorial Journal Dadah Malaysia, Agensi Anti Dadah Malaysia, 2009
- vii. Chairperson of the Amphetamine Type Symptoms (ATS) Seminar and HIV / AIDS Student Representative Seminar (MPP) IPT 2008
- viii. Appointed as a Consultant to the UMNO Supreme Council's Drug Disposal Bureau Malaysia effective 17th. Januari 2005
- ix. Appointed the Head of Research at the Activities Coordination Meeting on the Prevention of Drugs Program at the HEIs on July 26, 2005 for the Study of Drug Abuse for Higher Risk Students at the IPTA.
- x. The co-chair Kolokium PEMADAM IPT 2003
- xi. Involvement in the Association for the Prevention of Drugs Malaysia (PEMADAM) :

- Deputy president	PEMADAM Kebangsaan	2007-2009
- Vice president	PEMADAM Kebangsaan	2005 – 2007
- Chairman of the Bureau of Drug Prevention Education	Institute of Higher Education & Clubs	Sesi 2005
- Member of the Anti-Drug Council	PEMADAM Kebangsaan	2003
- Committee Member	Training Bereau, PEMADAM Kebangsaan	2003-2007
- Counselor	PENAWAR	1996
- Honorary secretary	Negeri Perak	1995 hingga 2001

- Committee member Training Bureau 1995
- Chairman PEMADAM Daerah Kinta 1993 – 1996

dd. Involvement in the Military Volunteer Team

- Government Officer (Lt. Kol) Batalion I, Rejimen 504 1hb. Januari 2003 – Nov 2006
- Commander Rejimen 509 30 Nov 2006

ee. Chairman, Al-Hussain Floating Mosque, Kuala Perlis. 2011

ff. Member of the Dato'-Dato Congregation Committee 'Perlis. – 2005

gg. Board of Directors of the Tuanku Syed Putra Perlis Foundation. – 2005

hh. Appointment as a Member of the Finance Committee of the Semalaysia Welfare Center (MPKSM) Session 2013-2016

ii. Appointment as Chairman of the Sub-Committee on Home Assistance Services & Session Volunteers 2013-2016

jj. Involvement in sports, social, cultural and uniform teams :

- i. Appointed as Deputy Chairman of the Subcommittee SUKMA XVII Perlis 2014
- ii. Commander, Pasukan Latihan Pegawai Simpanan (PALAPES) Universiti Malaysia Perlis – 2006
- iii. Commander, Kor Siswa Siswi Pertahanan Awam (SISPA) Universiti Malaysia Perlis - 2012
- iv. The President, Persatuan Seni Silat Cekak Universiti Malaysia Perlis
- v. The President, Swordsmen's Association Negeri Perlis – 2010
- vi. The President, Besbol Club Negeri Perlis -2012 till 2013
- vii. Vice President, Besbol National Club – 2011 till 2013
- viii. The President, Woodball Club Negeri Perlis – 2011 till 2013
- ix. Chairman, Majlis Kebudayaan Universiti-universiti Malaysia (MAKUM) – 2009-2010
- x. Chairman, Jawatankuasa Induk Kejohanan Persatuan Badan-badan Berkanun Malaysia Ke-8, 2013

- xi. Chairman, Jawatankuasa Induk Kejohanan Sukan Staf Antara Universiti Malaysia – 2007
- xii. Chairman of the IMT-GT Varsity Carnival Parent Committee in which Malaysia Hosted - 2009
- xiii. Head of Contingent from Malaysia for the 2008 IMT-GT Carnival in Medan, Indonesia (26 – 30hb. Januari 2008)
- xiv. Chairman of the University Tennis Tournament Master Committee ASEAN 2011
- xv. Chairman of the Open Committee of the University Open Tennis Tournament (UniTEC)- 2012
- xvi. Chairman of the Perlis Youth Cup Baseball Championship Committee – 2011 – 2012
- xvii. Chairperson of the Asian, Asian Youth and Malaysian Open Woodball Championship 2011 Committee
- xviii. Appointed as Chief Judge of the International Public Speaking Competition Finals English (MWF) 2010 Prime Minister's Cup in 5th. March 2010 at the PICC Plenary Hall, Putrajaya
- xix. Chairman of the Cultural Council of the Universities Malaysia Cultural Festival (FESTKUM) - 2009-2010
- xx. Co-Chair, 7th Malaysia Student Film and Video Festival
- xxi. Chairperson Program Baktisiswa Perlis State Level (records in the Malaysia Book of Record for the highest number of adopted children, most adoptive families and most villages for one organization)
- xxii. Advisor Malaysia University Robot Competitions (MURoC) anjuran UniMAP, 2010-2012
- xxiii. Advisor International Engineering Invention and Innovation Exhibition (i-ENVEX) anjuran UniMAP, 2010-2012
- xxiv. External assessor for the promotion of academic staff to the post Profesor Madya Gred DM54, Universiti Teknologi MARA (UiTM) starts September 2013
- xxv. Committee Member South East Asia Sustainability Network (SEASN) start November 2013.
- xxvi. Advisor Universiti Ubudiyah Indonesia start 14 Julai 2014

kk. Others

- i. Chairman of committee at International Conference "Recent Advances Materials and Mineral 99
- ii. Committee Member "13th Industrial Mineral International Congress anjuran Industrial Mineral, UK
- iii. Advisory Committee at International Conference "On Alternative Routes of Iron and Steelmaking (ICAEISM 99) anjuran AUSIMM Perth Branch and CSIRO Mineral WA, Australia
- iv. Invited Speaker at International Conference "On Alternative Routes of Iron and Steelmaking (ICARISM 99) di Perth, Australia
- v. Committee Member in Conference of Integrated Engineering anjuran JSPS/VCC di Universiti Malaya tahun 1998
- vi. Chair of the Assessor of Paper in the Integrated Engineering Conference organized by JSPS / VCC at the University of Malaya in 1998
- vii. Deputy Chairman at International Conference "Recent Advances Materials and Minerals 94"
- viii. Deputy Chairman of Limestone National Symposium Committee – 1996
- ix. Deputy Chairman of the Asian Level Conference Committee "X-Ray and Related Technique in Research and Industry" – 1995
- x. Chairpeson of Short Courses "Recent Advanced in Technology of Industrial Minerals" – 1990
- xi. Chairperson of Short Courses "First Technical Seminar of Quarry Engineering" – 1990
- xii. Chairperson of Short Courses "Flotation Testing and Circuit Design" – 1992
- xiii. Coerses Coordinator "Continuing Education Courses" – 1990

Course 1: Sampling, Evaluation and Basic Principles of Ores Reserve Estimation
Course 2: Advanced Methods of Ore Reserve Estimation
- xiv. Treasurer of the Short Course Committee "Unit Process in Hydrometallurgy" 1991
- xv. Committee of the Short Courses "Mineral Process Engineering, Theory and Practice" – May 1998
- xvi. Short Course Committee "Mineralogical & Technogy Aspects of the Processing of Gold & Other Precious Metals" – 1989

- xvii. Treasurer International Conference “Research and Development in Extraction Metallurgy of Tin and Related Materials” – 1988
- xviii. Coordinator Sel 4: Physical and Chemical Processing of Complex Ores Under British Council USM (ODA) – 5 years (1989 – 1993)
- xix. Chair of Campus Transfer Perak Branch from Pulau Pinang to Perak – 1986
- xx. Chair of Campus Transfer Perak Branch dari Tronoh, Perak to Transkrian, Pulau Pinang – 2001
- xxi. Chair of Campus Cafeteria Perak Branch – 1996 hingga 2001
- xxii. Board Education of School – 1996 hingga 2001
- xxiii. Senate: 1991, 1996 till 2001
- xxiv. Member of the Planning and Implementation Committee of the Engineering Campus at Perak 1995
- xxv. Chairman of AEDES Campus Perak Branch– 1996 till 2001
- xxvi. PALAPES Training Branch Chief is Major
- xxvii. Assistant at Hostel Desasiswa Gemilang, USM – 1983 – 1985
- xxviii. Head of Hostel Desasiswa Jaya, USM-KCP, 1986 – 1991
- xxix. External Examiner, 4 pelajar UKM dan UTM
- xxx. Appraiser for Profesor Madya – 3 lecturer UTM
- xxxi. Appraiser for Profesor – KUKUM dan KUITTHO
- xxxii. External Examiner in PhD thesis ‘Studies on Smelting Reductions Using the Sessile Drop Technique and the Induction Furnace’ – Utkal University, Bhubaneswar
- xxxiii. Reviewer paper ‘Influence of Additives on Physical-chemistry Properties of Sodium Aluminate Solution Using Seed Precipitation in the Bayer Process’ – Su Zhao, Yihong Yang, Shiwen Bi, Yanli Xie – Material and Metallurgy School, Northeastern University, Shenyang, Liaoning, 110004, P. R. China.
- xxxiv. Advisor Koperasi Alumni Sekolah Aminuddin Baki Kuala Lumpur Berhad 2009/10
- xxxv. Committee Member of Scholarship Pendidikan Negeri Perlis Ahli Lembaga Seri Puteri Batu Gajah, 1996 till 2001
- xxxvi. Committee Member Pelajaran Majlis Agama Islam Dan Adat Istiadat Melayu Perlis (MAIPs), 1 Jun 2012 hingga 31 Mei 2014

- xxxvii. Chair PIBG Sekolah Menengah St. Bernadette's Convent, Batu Gajah, 1997 hingga 2001
- xxxviii. Chair PIBG Sekolah Rendah Sultan Yussuf, Batu Gajah, 1994 hingga 2001
- xxxix. Panel Member Penasihat Perpaduan Negeri Perak, 1997 hingga 2001
 - xl. Motivation Speaker at Perpaduan, Lembaga Penduduk dan sekolah-sekolah
 - xli. User Panel Member Daerah Kinta, 1998 hingga 2001
 - xl.ii. Committee Member at Rukun Tetangga Pekan Batu Gajah, 1992 hingga 2001
 - xl.iii. Chair Rukun Tetangga Pekan Batu Gajah, 1998 hingga 2001
 - xl.iiii. Judge at Pertandingan Pantun Antara Maktab-Maktab Peringkat Kebangsaan, 1995
 - xl.v. Innovation Judge at Sekolah-sekolah Negeri Perak, 1996
 - xl.vi. Science Quiz Judge Peringkat Negeri Perak, 1996, 1997, 1998
 - xl.vii. Judge at Forum Remaja Peringkat Negeri Perak, 1994, 1995, 1996, 1997
 - xl.viii. Grading Officer at Bawah Seksyen 2B, Akta Rahsia Rasmi 1972 start 14 November 2012
 - xl.ix. Young People's Youth Advisor Malaysia Negeri Perlis (PPM) Mac 2013
 - I. Lab Member for working on Pelan Transformasi Kedah, 29 Julai 2013, Kerajaan Negeri Kedah
 - li. Chairman at Majlis Pusat Kebajikan Semalaysia (MPKSM), 2013 – 2016
 - lii. Chair Committee at Naib Canselor Rektor IPTA bermula Februari 2014

11. APPRECIATION/AWARD

(Formerly received from certain institutions or Government at local / international level)

NATIONAL

- a. Awarded Professor Emeritus on October 2015
- b. Awarded Top Research Scientist Malaysia (TRSM 2014) dari Academy Science of Malaysia (ASM), Kuala Lumpur pada 8 December 2014
- c. The Supreme Award for the Official Armory of the Malaysian Silat Art Association July 2014
- d. Awarded ASAS figure by the Shah Alam School Alumni Association (ASAS) on 22 February 2014.
- e. Awarded Tokoh Maal Hijrah peringkat Negeri Perlis Year 2013 on 4hb. November 2013
- f. Awarded National Service Commander (PJM) medal by DYMM SPB Agong on 1st. June 2013 bearing the title of Datuk
- g. Awarded Darjah Dato' Paduka Mahkota Perlis (DPMP) from DYMM Raja Perlis on 17hb. May 2013 yang membawa gelaran Dato'.
- h. Awarded 'Champion of MINDS' at exhibition ITEX 2011 from *Malaysian Invention and Design Society* (MINDS), in recognition of efforts to promote research and innovation in Malaysia.
- i. Awarded Darjah Dato' Panglima Sirajuddin Jamalullail (DPSJ) from DYMM Raja Perlis on 17hb. May 2004 bearing title Dato'
- j. Awarded Medal from Ahli Mahkota Perak (AMP) oleh DYMM Sultan Perak on 1996
- k. Awarded Medal Kesatria Angkatan Tentera (KAT), 2006
- l. Awarded Medal Darjah Kepahlawanan Angkatan Tentera (PAT) oleh Seri Paduka Baginda Yang DiPertuan Agong pada 21hb. October 2008
- m. Use of Lieutenant Colonel (Volunteer) Askar Wataniah, 1 January 2003
- n. Promotion of Colonel (Volunteer) Askar Wataniah, 30 November 2006
- o. Promotion of Brigedier Jeneral (Volunteer) Askar Wataniah, 24 June 2008
- p. Awarded Black Belt Honoured Darjah Ke-2 from Persatuan Karate-do Negeri Perlis
- q. Awarded Black Belt Honoured Darjah Ke-3 from Persatuan Taekwando Malaysia, 2011
- r. Awarded Medal of Excellence Service by Persekutuan Pengakap Malaysia, 2011

INTERNATIONAL

- a. Awarded International Socrates Awards' di Austria oleh European Business Award, 30 December 2014
- b. Awarded Lincoln Peace Award from Korea Universiti Invention Association(KUIA) at Seoul Trade Exhibition & Convention (SETEC), Korea Selatan, August 2014
- c. Awarded 'Award for Outstanding Contribution to Education' di World Chancellors & Vice Chancellors Congress & Awards di Mumbai, India, 28 June 2014
- d. Awarded Honourary Doctorate (Doctor Honoris Causa) from Karabuk University, Turki, 29 May 2014
- e. Awarded Merit of Commander by Belgian Chamber of Inventors." At World Inventor Award Festival , Dec 2013
- f. Awarded European Award for Best Practices from European Society for Quality & Research pada 8 December 2013 at Vienna, Austria
- g. Awarded World Business Leader & World Business Person by Worldcob Pada 29 September 2013 at Atlantis Palm, Dubai

- h. Awarded Golden Award for Quality & Business Prestige Oleh Otherways Association, Management and Consulting Pada 24th June 2013 at Rome Cavalieri
- i. Awarded Outstanding Vice Chancellor by Malaysian Invention & Design Society pada 27 April 2013 at Royal Selangor Club, Kuala Lumpur
- j. Awarded Best Enterprise & Manager of the Year Oleh European Business Assembly pada 11 April 2013 at Institute of Directors, London
- k. Awarded Best Manager from Europe Business Assembly, Institute of Directors, London 11th April 2013
- l. Awarded Majestic Five Continents Awards for Quality and Excellence from : Otherways International Research and Consultants on 17th November 2013 at Geneva, Vienna
- m. Awarded The Name in Science & Best Campus from Europe Business Assembly pada 17 December 2013, at Oxford Hall, London
- n. Awarded Order of Merit of World Inventors 2012, Seoul, Korea, 15 Disember 2012.
- o. Awarded 'Distinguished Fellowship' from Athlone Institute of Technology, Ireland pada bulan Jun 2011. (This is the first award given to non-Irish individuals.)
- p. Grants / Scholarships and Skills:
 - i. Editor Journal Antarabangsa IMM (2003), UK
 - ii. Members and committees of the Malaysian Technology Association, 1995
 - iii. Members and committees of the Malaysian Technology Association, 1995
 - iv. Members and committees International Association TMS (AIME) US, 1993
 - v. Members and committees Mineral Malaysia Association, 1999
 - vi. Members and committees Electron Microscope Association, 1998
 - vii. Awarded as a Malaysian Specialist by the ODA, USM / UK consortium to conduct research at Leeds University for 5 years (1 month each year) aims to develop a research center at the Malaysian Complex Oils Processing School
 - viii. Awarded as "Cooperative Research" in 1996 under the sponsorship of the JSPS / VCC exchange program for integration engineering. Be at Kyoto University for 2 months to study and collaborate on research to study Plastic and Metal Acquisition of Electronic Scopes
 - ix. Awarded as "Cooperative Research" in 1997 under the sponsorship of the JSPS / VCC exchange program for integration engineering. Be at Kyoto University for 2 months to study and collaborate on research to study Plastic and Metal Acquisition of Electronic Scopes
 - x. Awarded a "Potential Project" by the Silver Foundation at the USM-KCP research institute in 1998
 - xi. Selected as a Member of the Malaysian Standing Committee in organizing the JSPS / VCC seminar at the University of Malaya in 1998

- xii. Selected as a Member of the Malaysian Standing Committee in International Seminar-Iron and Steel di Australia in 1999 organized by CSIRO Minerals, Australia
 - xiii. Awarded Bintang Jasa Cemerlang PEMADAM (JCP) National Level in 1999
 - xiv. The research on "Silspat production and its use for ceramics and glass" was selected to represent the University in the exhibition Recent International Invention: Innovation, Industrial Design & Technology 1998 (I.TEX'98) di Kuala Lumpur
 - xv. Selected to Participate in "Workshop on Process Mineralogy" Seatrad Centre – 1989
 - xvi. Selected to Participate in "Conference 88 R & D for the Mineral Industry of Western Australia School of Mines 1992
- q. Award in Research Activities (list as appendix 15)

APPENDIX 1

RESEARCH GRANT /RESEARCH ACTIVITIES (42)

Title	Consultation on the Analysis of Plastic Material Flow into Injection Mold and Optimize the Injection Molding Parameters
Type of Grant	Industry Grant
Sponsor	Geran Penyelidikan Khas Nasional 9004-00035 bersama Funfeik Technology Sdn Bhd
Value	RM 30 000
Period	April 2013- April 2016
Positon	Co Researcher
Researchers	Shayfull Zamree bin Abd Rahim (Ketua), Mr Sim Kha Poh, Mohd Nasir Mat Saad, Mohd Mustafa Al Bakri Abdullah, Irfan Abd Rahim, Norshah Afizi Shuaib, Mohd Fathullah Ghazli, Mohamed Faisol Mohamed Nor
Title	Consultation on the Analysis of Plastic Material Flow into Injection Mold and Optimize the Injection Molding Parameters
Type of Grant	Industry Grant
Sponsor	Geran Penyelidikan Khas Nasional 9004-00035 bersama I-Zest Sdn Bhd
Value	RM 35 000
Period	April 2013- April 2016
Positon	Co Researcher
Researchers	Shayfull Zamree bin Abd Rahim (Ketua), Mr Sim Kha Poh, Mohd Nasir Mat Saad, Mohd Mustafa Al Bakri Abdullah, Irfan Abd Rahim, Norshah Afizi Shuaib, Mohd Fathullah Ghazli, Mohamed Faisol Mohamed Nor
Title	Nanocomposites To Expand Applications Of Non-Metallic Materials
Type of Grant	
Sponsor	KACST & ARAMCO, Saudi Arabia
Value	RM 370096.58
Period	02/02/2013-02/02/2016
Positon	Co Researcher
Researchers	Mohd Mustafa Al Bakri Abdullah (Ketua), PM Che Mohd Ruzaidi Ghazali, Norazian Mohamed Noor, Dr. Azlin Fazlina Osman, Mohd Arif Anuar Mohd Salleh, Liyana Jamaludin
Title	Skill Development on Product Design Engineering and Prototype Fabrication from Rubber Mold
Type of Grant	Industry Grant
Sponsor	
Value	RM 30 000
Period	April 2013- April 2016
Positon	Co Researcher
Researchers	Shayfull Zamree bin Abd Rahim (Ketua), Mohd Nasir Mat Saad, Mohd Mustafa Al Bakri Abdullah, Irfan Abd Rahim, Norshah Afizi Shuaib, Mohd Fathullah Ghazli, Mohamed Faisol Mohamed Nor

Title	Correlation Studies of Processing Parameter and Properties of Continuous Fiber Geopolymer Composite via Filament Winding Process
Type of Grant	FRGS
Sponsor	KPT
Value	RM 119 000
Period	Januari 2014- December 2016
Researcher	PM Che Mohd Ruzaidi Ghazali (Ketua), Mohd Mustafa Al Bakri Abdullah, Alida Abdullah
Title	Development Of A Robust Novel Lead Free Sn-Base Composite Solder
Type of Grant	International Grant
Sponsor	Nihon Superior Co. Ltd., Japan
Value	RM 229000
Period	12/01/2012-31/12/2015
Position	Co Researcher
Researchers	Dr Arif Anuar Salleh, PM Mohd Mustafa Al Bakri Abdullah
Title	Development Green Polymeric Concrete Tajaan: King Abdulaziz City for Science and Technology (KACST), Kingdom of Saudi Arabia
Type of Grant	
Sponsor	King Abdul Aziz City & Technology
Value	RM 1697728.33
Period	07/11/2010-20/07/2014
Position	Co Researcher
Researchers	Mohd Mustafa Al Bakri Abdullah (Ketua), PM Che Mohd Ruzaidi Ghazali, Norazian Mohamed Noor
Title	Synthesis of Economical and Green Xylitol from Biomass in Enzymatic Membrane Reactor by Locally Produced Xylose Reductase.
Type of Grant	COE MTUN
Sponsor	KPT
Value	RM51600
Period	JUN 2012-JUN 2014
Position	Co Researcher
Researchers	Mohd Mustafa Al Bakri Abdullah (Ketua), PM Che Mohd Ruzaidi Ghazali,
Title	Rapid Detection Of Bacteria Species On Diabetic Foot Infections By Using Electronic Nose Technology
Type of Grant	Government Grant
Sponsor	ERGS
Value	RM 122850
Period	28/07/2011-27/07/2013
Position	Co Researcher
Researchers	Prof. Madya Dr. Mohd. Iqbal Omar
Title	Seed Money

Type of Grant	
Sponsor	Seed Money
Value	RM 15000
Period	01/06/2012-01/05/2013
Positon	Main Reseacher
Researchers	
Title	Kajian Penyalahgunaan Dadah bagi Pelajar Kolej Komuniti & Kajian Penyalahgunaan Dadah bagi Pelajar IPTS dan Pelajar Luar Negara IPTA seluruh Malaysia
Type of Grant	
Sponsor	KPT
Value	RM 700000
Period	07/07/2009 – 09/06/2013
Positon	Main Reseacher
Researchers	
Title	Insentif Jurnal 2013
Type of Grant	
Sponsor	Tabung Insentif Jurnal
Value	RM 50000
Period	01/02/2014-31/01/2016
Positon	Main Reseacher
Title	Insentif Jurnal 2012
Type of Grant	
Sponsor	Tabung Insentif Jurnal
Value	RM 50000
Period	02/05/2014-01/05/2016
Positon	Main Reseacher
Title	Insentif Jurnal 2011
Type of Grant	
Sponsor	Tabung Insentif Jurnal
Value	RM 20000
Period	10/04/2013-10/03/2014
Positon	Main Reseacher
Title	Development Of Lightweight Brick With Geopolymer System Using Fly Ash And Bottom Ash
Type of Grant	
Sponsor	ANEKA Teknik, Indonesia
Value	RM 40000
Period	05/01/2014-31/05/2015
Positon	Co Reseacher
Researchers	Dr. Mohd. Mustafa AlBakri Abdullah

Title	Correlation Studies Of Processing Parameter And Properties Of Continuous Fiber Geopolymer Composite Via Filament Winding Process
Type of Grant	Government Grant
Sponsor	FRGS
Value	RM 119000
Period	06/06/2014-06/05/2017
Positon	Co Reseacher
Researchers	Prof. Madya Dr. Che Mohd. Ruzaidi Ghazali
Title	Nanocomposites to Expand Applications of Non-Metallic Materials
Type of Grant	International
Sponsor	Saudi Aramco & KACST Saudi Arabia
Value	RM2,200,000.00
Period	2012-2015
Positon	Co Reseacher
Researchers	Mohd Mustafa Al Bakri Abdullah (Ketua), PM Che Mohd Ruzaid Ghazali, Norazian Mohamed Noor, Liyana Jamaluddin
Title	Study On Production of Green Cement From Pulverized Fly Ash (PFA) Geopolymerization
Type of Grant	Khas
Sponsor	UniMAP
Value	RM 49,360.00
Period	2010-2011
Positon	Main Reseacher
Researchers	Mohd. Mustafa Al Bakri Abdullah
Title	Novel Of Ternary Metal Non Ferrous-Polypropylene Alloy For House/Building Wall Decoration Product
Type of Grant	Jangka Pendek
Sponsor	UniMAP
Value	RM 14,000.00
Period	2010-2011
Positon	Co Reseacher
Researchers	Prof. Madya Ir. Mohd Ichwan Nasution (ketua), Shamsul Baharin Bin Jamaludin, Ruhiyuddin Bin Mohd Zaki, Chek Idrus Bin Omar, Norzaidi Bin Zainol
Title	Development of Coconut Fibre With The Addition of Fly Ash for Cement Panel Application in Construction
Type of Grant	
Sponsor	
Value	RM114,000
Period	2009-2011
Positon	Co Reseacher
Researchers	Prof. Dr. Shamsul Baharin Jamaludin (Ketua), En. Mazlee Mohd Noor, En. Mohd Fadzil Arshad (UiTM), En Nameran Abdullah (Prima Data Sdn. Bhd.)

Title	Study the Mechanism And Parameter Of Grinding And Characterization Perlis Aggregate
Type of Grant	FRGS
Sponsor	KPT
Value	RM 50,000.00
Period	2009-2011
Positon	Co Reseacher
Researchers	Mohd Zaheruddin Kasmuin (ketua), Hashim Hussin (USM), Sammayamuthirian a/l Palaniandy (USM)
Title	Dasar Kerajaan di Negara Asia Tenggara: Satu Analisis Politik - Fasa 1- Indonesia, Cambodia & Vietnam
Type of Grant	Jangka Pendek
Sponsor	UniMAP
Value	RM 30,800.00
Period	2009-2010
Positon	Co Reseacher
Researchers	Raja Shah Erman Raja Ariffin (ketua), Hirwan Jasbir Bin Jaafar, Mohd. Mustafa Albakri Bin Abdullah, Mohd Hizazy Bin Yusof, Mohammad Jabbar Tariq Alizul Pakar, Dzairi Asrul Bin Dzainol
Title	Kajian Persepsi Remaja Masa Kini Terhadap Kontrak Sosial
Type of Grant	Jangka Pendek
Sponsor	UniMAP
Value	RM 5,000.00
Period	2008-2009
Positon	Co Reseacher
Researchers	Hirwan Jasbir Jaafar (Ketua), Raja Shah Erman Bin Raja Arifin, Mohd. Mustafa Albakri Bin Abdullah, Mohd Hizazy Bin Yusof
Title	Preparation Of Geopolymer For Construction As Alternative To Portland Cement
Type of Grant	Jangka Pendek
Sponsor	UniMAP
Value	RM 5,000.00
Period	2008-2009
Positon	Co Reseacher
Researchers	Mohd Mustafa Al-Bakri Abdullah (Ketua), Che Mohd Ruzaidi Bin Ghazali, Mohammad Tamizi Bin Selimin, Norazian Binti Mohamed Noor
Title	Studies on The Production and Properties of Metal Filled Polymer as High Filler Loading Composite
Type of Grant	Science Fund
Sponsor	Kementerian Sains, Teknologi dan Inovasi (MOSTI)

Value	RM 38,000.00
Period	2007 – 2010
Positon	Co Reseacher
Researchers	PM Che Mohd. Ruzaidi Ghazali (Ketua)
Title	The Study Of Reaction Mechanism Of Silicon Carbide (SiC) Production From Waste
Type of Grant	FRGS
Sponsor	Kementerian Pengajian Tinggi Malaysia
Value	RM 86,200.00
Period	2007-2010
Positon	Reseacher
Researchers	Khairul Nizar Bin Ismail, Saiful Azhar Bin Saad, Mohd Sobri Bin Idris
Title	Mechanism of Froth Floatation Techniques in Recycling Metal From Printed Circuit Board (PCB) Scrap
Type of Grant	FRGS
Sponsor	KPT
Value	RM 50,000.00
Period	2007-2010
Positon	Co Reseacher
Researchers	Mohd Zaheruddin Kasmuin (ketua), Md. Fazlul Bari, Shamsul Baharin Bin Jamaludin, Sri Asliza Binti Md. Amin, Faizul Bin Che Pa
Title	Predictive Model of Enviromental Management Plan Using Automated Data Collection System at UniMAP Campus, Ulu Pauh
Type of Grant	FRGS
Sponsor	KPT
Value	RM 100,000.00
Period	2007-2010
Positon	Co Reseacher
Researchers	Dr. Khairul Nizar Ismail (Ketua), Kamarudin Bin Mohd Nor, Saiful Azhar Bin Saad, Ragunathan Al Santiagoo, Abdul Haqi Bin Ibrahim, Zuraidah Binti Mohd Zain, Abdul Ghapar Bin Ahmad
Title	Hot Corrosion Behaviour of Austenitic Stainless Steel In Metallic Salts
Type of Grant	FRGS
Sponsor	KPT
Value	RM 97,000.00
Period	2007-2010
Positon	Co Reseacher
Researchers	Prof. Madya Dr. Mohd. Misbahul Amin (ketua), Neelofar Amin
Title	Fundamental Study of Age Hardening Behaviour in Aluminium-Copper Matrix Composite System
Type of Grant	Fundamental

Sponsor	Kementerian Pengajian Tinggi Malaysia
Value	RM15,000.00
Period	2007-2009
Positon	Co Reseacher
Researchers	Prof. Dr. Shamsul Bahari Jamaludin (Ketua), Dr. Fazlul Bari, Dr. Nazree Deraman
Title	Development Of Cost Effective Cement Matrix
Type of Grant	Science Fund
Sponsor	Kementerian Sains, Teknologi dan Inovasi (MOSTI)
Value	RM 144,000.00
Period	2007-2009
Positon	Co Reseacher
Researchers	Dr. Khairul Nizar Ismail (Ketua)
Title	Waste And By Product As Concrete Aggregates
Type of Grant	Jangka Pendek
Sponsor	UniMAP
Value	RM 10,000.00
Period	2007-2008
Positon	Co Reseacher
Researchers	Dr. Khairul Nizar Ismail (Ketua), Mohd Sobri Bin Idris
Title	A Study Of Leachate And Surface Water Contamination At Kg Wai Dumping Site
Type of Grant	Jangka Pendek
Sponsor	UniMAP
Value	RM 13,500.00
Period	2006-2007
Positon	Co Reseacher
Researchers	Azlinda Abdul Ghani (Ketua), Khairul Nizar Bin Ismail, Rangunathan Al Santiagoo, Naimah Binti Ibrahim, Salsuwanda Bin Selamat
Title	Preliminary Study On Concrete With Polymer Waste Coarse Aggregate
Type of Grant	Jangka Pendek
Sponsor	KUKUM (UniMAP)
Value	RM 20,000.00
Period	2006-2007
Positon	Co Reseacher
Researchers	Mohd Mustafa Al Bakri Abdullah (Ketua), PM Che Mohd Ruzaidi Ghazali
Title	Studies on The Production Potential of Various KUKUM Artificial Marble Products Via Pilot Plant
Type of Grant	Jangka Pendek
Sponsor	KUKUM
Value	RM 20,000.00
Period	2006 – 2007

Positon	Main Reseacher
Researchers	Prof. Madya Dr. Shamsul Baharin, Dr. Khairul Nizar
Title	Kajian Perincian Batu Reput di Perlis dan Potensi Kegunaannya
Type of Grant	FRGS
Sponsor	Kementerian Pengajian Tinggi
Value	RM 30,000.00
Period	2004-2005
Positon	Main Reseacher
Researchers	Khairul Nizar Bin Ismail, Saiful Azhar Bin Saad, Mohd Sobri Bin Idris, Mohd Nazry Bin Salleh, Prof. Madya Dr. Shamsul Baharin Bin Jamaludin, Che Mohd Ruzaidi Bin Ghazali, Mohd Sobri Bin Idris
Title	Kajian Mikrostruktur Klinker Semasa Pengeluaran Simen
Type of Grant	FRGS
Sponsor	KPT
Value	RM 10,000.00
Period	2003-2004
Positon	Co Reseacher
Researchers	Dr. Khairul Nizar Ismail (ketua), Shamsul Baharin Bin Jamaludin, Che Mohd Ruzaidi Bin Ghazali, Mohd Sobri Bin Idris
Title	Preliminary Studies Of Producing Thermoplastic Impregnated Wood
Type of Grant	FRGS
Sponsor	KPT
Value	RM 14,000.00
Period	2003-2004
Positon	Co Reseacher
Researchers	Che Mohd Ruzaidi Ghazali (ketua), Khairul Nizar Bin Ismail
Title	Production of Light Aggregate From Industrial Waste
Type of Grant	IRPA Grant
Sponsor	
Value	RM18,000.00
Period	2001-2002
Positon	Main Reseacher
Researchers	Prof. Madya. Dr. Azizan Aziz
Title	Waste Processing and Recycling of Electronic Industry Scrap
Type of Grant	IRPA
Sponsor	
Value	RM20,000.00
Period	1997-1998
Positon	Main Reseacher
Researchers	Prof. Madya. Dr. Azizan Aziz
Title	Control of Cyanide Waste from Gold Extraction Plant

Type of Grant	IRPA
Sponsor	
Value	RM300,000.00
Period	1996-1999
Positon	Co Reseacher
Researchers	Prof. Madya Dr. Azizan Aziz (Ketua), Porf. Khangaonkar, Dr. Norlia Baharun,
Title	Process Development and Technique of Producing Industrial Products from Mineral Accessories of Tin Ores
Type of Grant	IRPA
Sponsor	
Value	RM200,000.00
Period	1992-1995
Positon	Co Reseacher
Researchers	Prof. Madya Dr. Azizan Aziz (Ketua), Porf. Khangaonkar, Dr. Norlia Baharun,

APPENDIX 2

PATENT GRANTED(8)

1. Anti Radiation Concrete Composition and Method Of Its Production – EP-3064480
2. Design and Mixture for Anti-Radiation Pozzolan- Polymeric Cementitious Material, US Granted – US-20160260510
3. Geopolymer Brick Fabrication System, US Granted – US- 20160031117
4. Geopolymerization Method for Soil Stabilization Application,US Granted- US-944755
5. Cement Composition And A Method of Producing An Environmentally Friendly Concrete, Malaysia Granted - MY-148054-A
6. Environment Friendly Composite Construction Materials, US Granted -US-8337612-B2
7. Reduction Of Carbon Dioxide In The Manufacturing Of Composite Construction Materials, US Granted - US-8580029-B2
8. A Method Of Coating A Geopolymer Onto An Article, European Patent Granted - EP-2644583-A1

PATENT FILING(18)

1. A Method Producing Concrete, Malaysia Patent - (PI 2010006250)
2. Solder Composition And Method Of Production Thereof, Malaysia Patent - (PI 2011000849)
3. A Method Of Producing A Bacterial Inoculum, Malaysia Patent - (PI 2011000970)
4. An Alloy and A Sacrificial Anode Produced Therefrom, Malaysia Patent - (PI 2011001297)
5. Green Polymeric Cement and Concrete, Saudi Arabia Patent - (110320063)
6. Environment Friendly Composite Construction Materials, US Patent - (US 20110290153)
7. Novel Multi-Purpose Green Composites (MGCs), Malaysia Patent - PI 2012002111
8. An A Method Of Coating A Geopolymer Onto An Article, Malaysia Patent - (PI 2012700134)
9. An A Method Of Coating A Geopolymer Onto An Article, US Patent Application - (Application No.: 12164099.9 - 2111)
10. A Method Of Producing A Bacterial Inoculum, International Patent - (PCT/MY2012/000043)
11. Volcano Ash Solid Geopolymer Composite And A Method of Producing The Same, Malaysia Patent - (PI 2012700984)
12. A Novel Smart Larvicide, Malaysia Patent - (PI 2012004523)
13. Natural And Synthetic Organic Surface Finish For Electronic Metallization, Malaysia Patent - (PI 2012001976)

14. A Novel Waste Filler Friction Composite For Use In Brake Pads, Malaysia Patent - (PI 2012004524)
15. A System And A Method Of Producing Granulated Solder, Malaysia Patent - PI2013701490
16. Geopolymerization Method for Soil Stabilization Application, Malaysia Patent - PI 2013701225
17. Geopolymer Brick Fabrication System, Malaysia Patent - PI 2013701396
18. A Glass Fiber Reinforced Composite Pipe, Malaysia Patent - PI 2014701034

APPENDIX 3

IMPACT JOURNAL (137)

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- Liew, Y. -, Heah, C. -, Li, L. -, Jaya, N. A., Abdullah, M. M. A. B., Tan, S. J., & Hussin, K. (2017). Formation of one-part-mixing geopolymers and geopolymer ceramics from geopolymer powder. Construction and Building Materials, 156, 9-18. *(Indexed by Scopus, Impact Factor : 4.046)*
- Liew, Y.M., Yong, H.C., Al Bakri Abdullah, M.M., Hussin, K., Structure and properties of clay based geopolymer cements : A Review (2016) Materials Science, 83 pp. 595-629. *(Indexed by Scopus, Impact Factor : 3.083)*
- Ahmad R., Al Bakri Abdullah, M.M., Kamarudin, H., Sandu A.V., Binhussain, M., Jaya, N.A. Processing and properties of polymer filled geopolymer ceramics fabricated via powder metallurgy method: A Review (2016) Review on Advanced Materials Science, 44(1), pp. 26-32. *(Indexed by Scopus, Impact Factor : 1.245)*
- Rosli, F., Ghazali, C.M.R., Al Bakri Abdullah, M.A., Hussin, K. A review: Characteristics of oil palm trunk (OPT) and quality improvement of palm trunk plywood by resin impregnation (2016) BioResources, 11 (2), pp. 5565-5580. *(Indexed by Scopus, Impact Factor : 1.3As25)*
- Ismail, S.A., Jamil, N.H., Kamarudin, H., Salleh, M.A.A.M. Tin (Sn) recovery from wave soldering lead free solder dross via hydrochloric acid leaching and combustion treatment (2016) Materials Science Forum, 857, pp. 535-539. *(Indexed by Scopus, Impact Factor : 0.28)*
- Nordin, N., Abdullah, M.M.A.B., Tahir, M.F.M., Sandu, A.V., Hussin, K. Utilization of fly ash waste as construction material (2016) International Journal of Conservation Science, 7 (1), pp. 161-166. *(Indexed by Scopus, Impact Factor : 0.656)*
- Deraman, L.M., Al Bakri Abdullah, M.M., Yun Ming, L., Hussin, K., Yahya, Z. The strength of bottom ash-based geopolymer brick with inclusion of fly ash (2016) Materials Science Forum, 841, pp. 26-29. *(Indexed by Scopus, Impact Factor : 0.28)*
- Liew, Y.M., Yong, H.C., Al Bakri Abdullah, M.M., Hussin, K., Jin, T.S. Characterization of alum crystals synthesized from waste aluminium beverage cans (2016) Materials Science Forum, 857, pp. 514-518. *(Indexed by Scopus, Impact Factor : 0.28)*

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(Indexed by Scopus, Impact Factor : 1.03)
- Azimi, E., Al Bakri Abdullah, M.M., Ming, L.Y., Yong, H.C., Hussin, K., Aziz, I.H. Processing and properties of geopolymers as thermal insulating materials: A review (2016) *Reviews on Advanced Materials Science*, 44 (3), pp. 273-285.
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- Munirah, N.R., Noriman, N.Z., Salihin, M.Z., Sam, S.T., Mustafa Al Bakri, A.M., Kamarudin, H., Rosniza, H., Omar, M.F. The effects of trans-polyoctylene rubber (TOR) on the cure characteristics and swelling behaviour of activated carbon filled styrene butadiene rubber (SBR) vulcanizates (2016) *Materials Science Forum*, 857, pp. 164-168.
(Indexed by Scopus, Impact Factor : 2.67)
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(Indexed by Scopus, Impact Factor : 1.67)
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- Reshak, A.H., Huang, H., Kamarudin, H., Auluck, S. Alkali-metal/alkaline-earth-metal fluorine beryllium borate NaSr₃Be₃B₃O₉F₄ with large nonlinear optical properties in the deep-ultraviolet region (2015) *Journal of Applied Physics*, 117 (8), art. no. 085703, . (Indexed by Scopus, Impact Factor : 2.18)
- Reshak, A.H., Slimani Tlemçani, T., El Bahraoui, T., Taibi, M., Plucinski, K.J., Belayachi, A., Abd-Lefdil, M., Lis, M., Alahmed, Z.A., Kamarudin, H., Chyský, J., Bila, J. Characterization of multiferroic Bi_{0.8}RE_{0.2}FeO₃ powders (RE=Nd³⁺, Eu³⁺) grown by the sol-gel method (2015) *Materials Letters*, 139, pp. 104-107. (Indexed by Scopus, Impact Factor : 2.49)
- Yahya, Z., Abdullah, M.M.A.B., Hussin, K., Ismail, K.N., Razak, R.A., Sandu, A.V. Effect of solids-to-liquids,

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- Ud Din, H., Reshak, A.H., Murtaza, G., Amin, B., Ali, R., Alahmed, Z.A., Chyský, J., Bila, J., Kamarudin, H. Structural, elastic, thermal and electronic properties of M₂X (M = Sr, Ba and X = Si, Ge, Sn) compounds in anti-fluorite structure: first principle calculations (2015) *Indian Journal of Physics*, 89 (4), pp. 369-375. (*Indexed by Scopus, Impact Factor : 1.38*)
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- Ragunathan, S., Mustaffa, Z., Kamarudin, H., Sam, S.T., Ismail, H. The effect of polypropylene maleic anhydride on polypropylene/(recycled acrylonitrile butadiene rubber)/(sugarcane bagasse) composite (2015) *Journal of Vinyl and Additive Technology*, . (*Indexed by Scopus, Impact Factor : 0.86*)
- Reshak, A.H., Nouneh, K., Kityk, I.V., Bila, J., Auluck, S., Kamarudin, H., Sekkat, Z. Structural, electronic and optical properties in earth-abundant photovoltaic absorber of Cu₂ZnSnS₄ and Cu₂ZnSnSe₄ from DFT calculations (2014) *International Journal of Electrochemical Science*, 9 (2), pp. 955-974. (*Indexed by Scopus, Impact Factor : 1.50*)
- Faheem, M.T.M., Al Bakri, A.M.M., Ruzaidi, C.M., Kamarudin, H., Izzat, A.M., Alida, A. New processing method of kaolin-based geopolymer brick by using geopolymer brick machine (2014) *Key Engineering Materials*, 594-595, pp. 406-410. (*Indexed by Scopus, Impact Factor : 0.19*)
- Nizar, I.K., Al Bakri, A.M.M., Rafiza, A.R., Kamarudin, H., Alida, A., Zarina, Y. Study on physical and chemical properties of fly ash from different area in Malaysia (2014) *Key Engineering Materials*, 594-595, pp. 985-989. (*Indexed by Scopus, Impact Factor : 0.19*)
- Abdullah, A., Al Bakri, Abdullah, M.M., Hussin, K., Mohd Ruzaidi Ghazali, C., Yahya, Z., Mohd Salleh, M.A.A., Zakaria, N., Tahir, M.F.M. Compressive strength and morphology of fly ash based geopolymer as artificial aggregate with different curing temperature (2014) *Key Engineering Materials*, 594-595, pp. 151-155. (*Indexed by Scopus, Impact Factor : 0.19*)
- Zarina, Y., Kamarudin, H., Al Bakri, A.M.M., Nizar, I.K., Rafiza, A.R. Influence of dolomite on the mechanical properties of boiler ash geopolymer paste (2014) *Key Engineering Materials*, 594-595, pp. 8-12. (*Indexed by Scopus, Impact Factor : 0.19*)
- Fazara, M.A.U., Jainoo, I., Ismail, K.N., Hussin, K., Fahmi, M.R. Physicochemical properties of pyrolytic carbon black from waste tyres.(2014) *Key Engineering Materials*, 594-595, pp. 178-182. (*Indexed by Scopus, Impact Factor : 0.19*)
- Tamizi, S.M., Al Bakri, A.M., Kamarudin, H., Ruzaidi, C.M., Liyana, J., Aeslina, A.K. Feasibility study on composition and mechanical properties of marine clay based geopolymer brick.(2014) *Key Engineering Materials*, 594-595, pp. 401-405. (*Indexed by Scopus, Impact Factor : 0.19*)
- Daud, Y.M., Hussin, K., Ruzaidi, C.M., Osman, A.F. Polyolefin layered silicates nanocomposites - A review.(2014) *Key Engineering Materials*, 594-595, pp. 671-675. (*Indexed by Scopus, Impact*

Factor : 0.19)

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- Salmah, H., Rohana, A.S., Kamarudin, H. Effect maleic anhydride polypropylene on properties of calcium carbonate filled polypropylene/ethylene propylene diene terpolymer composites. (2014) Key Engineering Materials, 594-595, pp. 770-774. *(Indexed by Scopus, Impact Factor : 0.19)*
- Rafiza, A.R., Al Bakri, A.M.M., Kamarudin, H., Nizar, I.K., Hardjito, D., Wan Badaruzzaman, W.H., Zarina, Y. Microstructure study on volcano ash geopolymer aggregate at different sintering temperature.(2014) Key Engineering Materials, 594-595, pp. 83-87. *(Indexed by Scopus, Impact Factor : 0.19)*
- Ghazali, C.M.R., Abdullah, A., Al Bakri Abdullah, M.M., Hussin, K., Ismail, A.N. Compressive strength of fly ash based geopolymer / glass fiber composite via filament winding.(2014) Key Engineering Materials, 594-595, pp. 78-82. *(Indexed by Scopus, Impact Factor : 0.19)*
- Noorliyana, H.A., Zaheruddin, K., Kamarudin, H. A study of liberation and separation process of metals from printed circuit boards (PCBS) scraps (2014) Key Engineering Materials, 594-595, pp. 123-127. *(Indexed by Scopus, Impact Factor : 0.19)*
- Farhana, Z.F., Kamarudin, H., Rahmat, A., Bakri, A.M.M.A. A study on relationship between porosity and compressive strength for geopolymer paste.(2014) Key Engineering Materials, 594-595, pp. 1112-1116. *(Indexed by Scopus, Impact Factor : 0.19)*
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APPENDIX 4

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APPENDIX 5

JOURNAL ARTICLE (18)

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APPENDIX 6

BOOK (38)

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- A study on Recycling on Recycling of Disposal Consumer Electronic Goods*. (1996). Paper presented at the 6th JSPS/VCC Seminar on Integrated Engineering, Kyodai-Kaikan, Kyoto, Japan.
- Perolehan sianida menggunakan resin penukar ion bes kuat*. (1999). Paper presented at the Malaysian Science & Technology Congress '99, Kuala Lumpur, Malaysia.

APPENDIX 9

RESEARCH TECHNICAL REPORT (5)

1. Control of cyanide waste from gold extraction plant, Technical Report on IRPA.
2. Extraction of Ilmenite – Struverite – Magnetic Tin.). Hydrometallurgical Approaches.
3. Extraction of Tin Using Chlorination-Lime-Metallurgy. Technical Report of Short Term Grant.
4. Production of light weight aggregate from industrial waste. Technical Report of Short Term Grant.
5. Astrawinata, R., & Hussin, P. (2007). Carbochlorination reduction of ilmenite (FeTiO₃): Universiti Sains Malaysia

APPENDIX 10

NON TECHNICAL PAPERS (4)

- Kamarudin Hussin, Noridah Yangman, "Peranan Parakaunselor PEMADAM dalam Kesukarelawan, " Presiding Kongres Kesukarelawan PEMADAM" 1994**
- Kamarudin Hussin, "Pengurusan Kualiti Menyeluruh Dalam PEMADAM," Buletin PEMADAM,1996**
- Kamarudin Bin Hussin, "Peranan Briged PEMADAM Kinta," Buletin PEMADAM, 1997**
- Kamarudin Bin Hussin, Noridah bt Yangman, "Pengurusan Kewangan dalam Kegawatan Ekonomi," Seminar Pengguna 1998**

APPENDIX 11

POSTGRADUATE SUPERVISION

a) MASTER

Bil.	Name	Research Title	Program	Supervision	Year of Graduation
1.	Nurul Aida binti Mohd Mortar	Damage and Risk Assessment of Geopolymer Concrete Subjected to Blast Lading	Master (Material Engineering)	Main Researcher	2018
2.	Liyana binti Jamaludin	Study of Processing of Geopolymer as Protective Coating	Master (Material Engineering)	Main Researcher	2019
3.	Muhd Izzat bin Ahmad	Preparation and Characterization of Ksolin Based Geopolymer Composite Cement	Master (Material Engineering)	Main Researcher	2019
4.	Muhammad Faheem Bin Mohd Tahir	Physical And Mechanical Properties Study Of Fly Ash Based Geopolymer Masonry Brick	Master (Material Engineering)	Main Researcher	2016
5.	Wan Mastura Binti Wan Ibrahim	Production Of Cement By Pulverized Fly Ash (PFA) Using Geopolymerization	Master (Material Engineering)	Main Researcher	2013
6.	Hazrin Jahidi Bin Jaafar	Microstructure Characterization For High Efficiency MG. (Cr, Mn, Sr, Zr) Sacrificial	Master (Material Engineering)	Main Researcher	2013
7.	Ishak Bin Jainoo	Study On Properties Of Carbon Black Waste Produced From Scrap Tyres Using The Pyrolysis System	Master (Environmental Engineering)	Co Researcher	2013
8.	Noridayu Binti Ismail	The Effect Combination Of Acid Treatments For Silicon Carbide (SiC) Production From Rice Straw	Master (Environmental Engineering)	Co Researcher	2012
9.	Aimi Noorliyana Binti Hashim	Separation And Recovery Of Metals From Waste Printed Circuit Boards (PCBs)	Master (Material Engineering)	Co Researcher	2011
10.	Sharizan Bin Ibrahim	Gold Leaching Process And Recovery From Gold Scraps Using Ascorbic Acid	Master (Material Engineering)	Co Researcher	2011
11.	Siti Rohana Binti Ahmad	Characterization And Properties Of Calcium	Master (Material Engineering)	Co Researcher	2009

		Carbonate Filled Polypropylene (PP) / Ethylene Propylene Diene Terpolymer (EPDM) Composites			
12.	Siti Shuhadah Binti Md Saleh	Effect Of Chemical Modification Of Eggshells Powder Filled Low Density Polyethylene Composites	Master (Material Engineering Bahan)	Co Researcher	2010
13.	Libren Anak Francis Doublin	Study Of Production Of Silicon Carbide(SiC) From Rice Husk And Fly Ash	Master (Environmental Engineering)	Main Researcher	2009
14.	Md Sohrab Hossain	Selective Extraction And Separation Of Cu(II), Zn(II), Ni(II) and Fe(III) From The Leach Liquor Of Printed Circuit Board Using Cyanex 272 Coated Microcapsules	Master (Material Engineering)	Co Researcher	2009
15.	Mohd Nazry Bin Salleh	Characterization And Potential Of Perlis's Dolomite As Filler In Thermoset Composite Product	Master (Material Engineering))	Co Researcher	2007
16.	Othman bin Razali	Pembangunan Meja Udara dan Pembangunannya	Master	Co Researcher	2002
17.	Zawati bin Harun	Kajian Ke Atas Agen-Agen Penyahgumpalan Di Dalam Sistem Seramik – Air	Master	Co Researcher	1998
18.	Hisham Jabar	Interaksi Mineral-Reagen Dalam Pengapungan	Master	Co Researcher	1995
19.	Osama Abdul Aziz Abdel Rahman Twaiq	Kajian Mineralogi Untuk Meningkatkan Gred Pegmatit	Master	Co Researcher	1999
20.	P. Poobalan a/l S. Periasamy	Penghasilan Penapis daripada proses Sol Gel	Master	Co Researcher	2002
21.	Mohd. Zaheruddin Kasmuin	Penggunaan Karbon Teraktif di Dalam Rawatan Sisa-Sisa Industri	Master	Co Researcher	2001
22.	Mohd. Suffian Yusoff	Kajian Mineralogi dan Kesan Pengoksidaan Biologi Terhadap Bijih Emas Penjom	Master	Co Researcher	1999
23.	Looi Lai Kheng	Aplikasi Resin Penukar Ion Dalam Perawatan Hampas	Master	Co Researcher	2001
24.	Azlina bt. Ariffin	Aplikasi Resin Penukar Ion	Master	Co Researcher	2001
25.	Nor Azarudin	Kesan Pembangunan Langkah Baru dalam Pembuatan Aloji Keluli	Master	Co Researcher	2003

b) DOCTOR OF PHILOSOPHY

Bil.	Nama	Tajuk Penyelidikan	Program	Status Penyelia	Tahun Tamat Pengajian
1.	Shamala A/P Ramasamy	Design and Processing of Geopolymer Coating Application using Kaolin	PhD (Material Engineering)	Main Researcher	2018
2.	Romisuhani binti Ahmad	Development of Geopolymer Ceramics Reinforced with Thermoplastics Polymer for Lightweight Application	PhD (Material Engineering)	Main Researcher	2018
3.	Wan Mastura binti Wan Ibrahim	Design, Processing and Characterization of Lightweight Fly Ash Based Geopolymer Brick Using Foaming Agent	PhD (Material Engineering)	Main Researcher	2018
4.	Mohammad Firdaus bin Abu Hashim	Geopolymer Composite Via Filament Winding Process	PhD (Material Engineering)	Penyelia Bersama	2018
5.	Alida binti Abdullah	Fly Ash Based Geopolymer As Lightweight Aggregate Using Low Temperature	PhD (Material Engineering)	Main Researcher	2019
6.	Salwa Mohammad Shirajuddin	Study of Processing Geopolymer Materials as Protective Coating	PhD (Material Engineering)	Main Researcher	2019
7.	Yusrina binti Mat Daud	Characterization and Mechanical Properties of Geo Polymer Binder in Friction Materials	PhD (Material Engineering)	Main Researcher	2018
8.	Rafiza Binti Abd Razak	Potential Of Mud Volcano As Geopolymer Composites	PhD (Material Engineering)	Main Researcher	2015
9.	Zarina Binti Yahya	Palm Ash Geopolymer Composite For Coating	PhD (Material Engineering)	Main Researcher	2015
10.	Farah Farhana Binti Zainal	Microstructure Characterization For High Efficiency MG. (Cr, Mn , Sr, Zr) Sacrificial	PhD (Material Engineering)	Main Researcher	2016
11.	Omar A.K.A. Abdul Kareem	Car Tyre Of High Protection Against Nails And Sharp Details	PhD (Material Engineering)	Main Researcher	2013
12.	Heah Cheng Yong	Development Of Non-Ordinary Portland Cement Concrete	PhD (Material Engineering)	Main Researcher	2014

13.	Liew Yun Ming	Development Of Non-Ordinary Portland Cement Concrete	PhD (Material Engineering)	Main Researcher	2014
14.	Mohd Mustafa Al Bakri Abdullah	Development Of Non-Cement Based Lightweight Concrete For Industrialized Building System	PhD (Material Engineering)	Main Researcher	2013
15.	Farhan Ahmed Khammas	Mechanical And Thermal Properties For Polymer Composites Material Reinforced By Lamaniated Metallic Grids	PhD (Material Engineering)	Co Researcher	2018
16.	Faisal Amri Tanjung	Effect Of Filler Loading And Chemical Modifications On Properties Of Chitosan/ Polypropylene Composites	PhD (Material Engineering)	Co Researcher	2012
17.	Tengku Faisal Zulkifli Hamid	Properties Of Coconut Shell Filled Thermoplastic Elastomer Biocomposites	PhD (Material Engineering)	Co Researcher	2012
18.	Mazlee Bin Mohd Noor	Damping Properties Of A357 Alloys And A357 – Stainless Steel Composites Fabricated Under Different Conditions	PhD (Material Engineering)	Co Researcher	2010
19.	Mst. Noorzahan Begum	Extraction , Separation And Recovery Of Cu(II) , Ni(II) And Zn(II) By Cyanex 272 From Leached Solution Of PCB	PhD (Material Engineering)	Co Researcher	2010
20.	Che Mohd Ruzaidi Bin Ghazali	Penghasilan Dan Kajian Sifat Komposit Polimer Berpengisi Logam Terkitar Semula	PhD (Material Engineering)	Main Researcher	2010
21.	Mohd. Sufian Yussuf	Kajian Kesan Batu Kapur Ke Atas Penyingkiran Logam-Logam Berat daripada sisa air industri	PhD	Main Researcher	2002
22.	Khairul Nizar bin Ismail	Pembangunan Bahan Binaan Baru Komposit Berasaskan Konkrit Dalam Struktur Binaan	PhD	Main Researcher	2002
23.	Meor Yusof Meor Sulaiman	Pengkajian Hidrometalurgi Bagi Zirkon Tempatan	PhD	Main Researcher	1998
24.	Norlia bt. Harun	Pengkajian Ke Atas Rawatan Sianida Buangan daripada Proses Pengekstrakan Emas	PhD	Main Researcher	1999

APPENDIX 12

CONSULTATION (26)

Program	Temubual sempena Festkon 10
Organizer	RTM
Date	17/09/2015
Program	SOP Pencegahan Dadah Substans dan Alkohol Siri 3
Organizer	Bengkel Jurulatih
Date	31/10/2014
Program	SOP Pencegahan Penyalahgunaan Dadah, Substans & Alkohol IPT, KPM
Organizer	Bengkel "Training Of Trainer"
Date	15/04/2014
Program	Temubual melalui telefon mengenai PROLIS
Organizer	Selamat Pagi Malaysia
Date	11/04/2014
Program	Wawancara Khas
Organizer	RTM
Date	29/04/2014
Program	Wawancara
Organizer	Majalah Dewan Kosmik
Date	05/02/2013
Program	Soft Launch PECEIPTA
Organizer	MHI
Date	11 Oktober 2013
Program	Seminar Pendidikan Melayu Antarabangsa
Organizer	Selamat Pagi Malaysia
Date	19.3.2012
Program	Transformasi Pengajian Tinggi untuk Kelestarian Masa Depan Negara
Organizer	Dialog
Date	26.5.2011
Program	Festival Filem & Video Pelajar Malaysia ke – 7 (FFVPM7).
Organizer	Malaysia Hari Ini
Date	30.11.2010
Program	Festival Filem & Video Pelajar Malaysia ke – 7 (FFVPM7).
Organizer	Perlis FM

Date	11.1.2010
Program	Kejayaan UniMAP 2009 dan perancangan UniMAP 2010.
Organizer	Perlis FM
Date	18.1.2010
Program	Istiadat Konvokesyen ke -4 UniMAP 2009
Organizer	Perlis FM
Date	10.8.2009
Program	'Appointment'
Organizer	Bernamea Radio
Date	19.2.2009
Program	PRODUK UNIVERSITI TIDAK IKUT PASARAN'
Organizer	Suara Siswa RTM
Date	30.4.2009
Program	Festival Filem & Video Pelajar Malaysia ke – 7 (FFVPM7).
Organizer	Selamat Pagi Malaysia
Date	21.12.2009
Program	IMT – GT Varsity Karnival ke – 11.
Organizer	BERNAMA RADIO 24
Date	RABU 25 MAC 2009
Nama Program	IMT – GT Varsity Karnival ke – 11.
Nama Rancangan	Scoreboard TV3
Tarikh	1.4.2009
Program	Kepelbagaian Kerjasama oleh UniMAP&Kelebihan UniMAP sebagai IPTA di Malaysia
Organizer	Perlis FM
Date	7.7.2008
Program	Pendaftaran Pelajar Sidang Akademik 2008/2009
Organizer	Perlis FM
Date	30.6.2008
Program	Istiadat Konvokesyen ke – 3 UniMAP 2008
Organizer	Perlis FM
Date	13.8.2008
Program	Pesta Konvokesyen kali – 2 UniMAP
Organizer	Perlis FM
Date	13. 8. 2007

Program Kejujanaan Sukan Staf Antara IPTA ke – 32, 2007.
Organizer Perlis FM
Date 18.6.2007

Program Kejujanaan Sukan Staf Antara IPTA ke – 32, 2007.
Organizer Scoreboard TV3
Date

Program Konvokesyen Universitas Islam Sumatera Utara (UISU)
Organizer Wisuda UISU
Date 21-22 Januari 2013

Program AEC and Its Relevance
Organizer Ceramah Kepada International Business Management Department of the
Martin De Tours School of Management and Economics, Assumption
University
Date 30hb. Januari 2013

APPENDIX 13

INVITED SPEAKER/FORUM PANEL/PRESENTER (23)

Program	Temubual sempena Festkon 10
Television Programme	RTM
Date	17/09/2015
Program	SOP Pencegahan Penyalahgunaan Dadah, Substans & Alkohol IPT, KPM
Television Programme	Bengkel "Training Of Trainer"
Date	15/04/2014
Program	Temubual melalui telefon mengenai PROLIS
Television Programme	Selamat Pagi Malaysia
Date	11/04/2014
Program	Wawancara Khas
Television Programme	RTM
Date	29/04/2014
Program	Wawancara
Television Programme	Majalah Dewan Kosmik
Date	05/02/2013
Program	Soft Launch PECEIPTA
Television Programme	MHI
Date	11 Oktober 2013
Program	Seminar Pendidikan Melayu Antarabangsa
Television Programme	Selamat Pagi Malaysia
Date	19.3.2012
Program	Transformasi Pengajian Tinggi untuk Kelestarian Masa Depan Negara
Television Programme	Dialog
Date	26.5.2011
Program	Festival Filem & Video Pelajar Malaysia ke – 7 (FFVPM7).
Television Programme	Malaysia Hari Ini
Date	30.11.2010
Program	Festival Filem & Video Pelajar Malaysia ke – 7 (FFVPM7).
Television Programme	Perlis FM
Date	11.1.2010

Program Television Programe Date	Kejayaan UniMAP 2009 dan perancangan UniMAP 2010. Perlis FM 18.1.2010
Program Television Programe Date	Istiadat Konvokesyen ke -4 UniMAP 2009 Perlis FM 10.8.2009
Program Television Programe Date	'Appointment' Bernama Radio 19.2.2009
Program Television Programe Date	PRODUK UNIVERSITI TIDAK IKUT PASARAN' Suara Siswa RTM 30.4.2009
Program Television Programe Date	Festival Filem & Video Pelajar Malaysia ke – 7 (FFVPM7). Selamat Pagi Malaysia 21.12.2009
Program Television Programe Date	IMT – GT Varsity Karnival ke – 11. BERNAMA RADIO 24 RABU 25 MAC 2009
Program Television Programe Date	IMT – GT Varsity Karnival ke – 11. Scoreboard TV3 1.4.2009
Program Television Programe Date	Kepelbagaian Kerjasama oleh UniMAP&Kelebihan UniMAP sebagai IPTA di Malaysia Perlis FM 7.7.2008
Program Television Programe Date	Pendaftaran Pelajar Sidang Akademik 2008/2009 Perlis FM 30.6.2008
Program Television Programe Date	Istiadat Konvokesyen ke – 3 UniMAP 2008 Perlis FM 13.8.2008
Program Television Programe Date	Pesta Konvokesyen kali – 2 UniMAP Perlis FM 13. 8. 2007
Program Television Programe	Kejohanan Sukan Staf Antara IPTA ke – 32, 2007. Perlis FM

Date 18.6.2007

Program Kejuhanan Sukan Staf Antara IPTA ke – 32, 2007.
Television Programme Scoreboard TV3
Date

Program Konvokesyen Universitas Islam Sumatera Utara (UISU)
Television Programme Wisuda UISU
Date 21-22 Januari 2013

Program AEC and Its Relevance
Television Programme Ceramah Kepada International Business Management Department of the
Martin De Tours School of Management and Economics, Assumption
University
Date 30hb. Januari 2013

APPENDIX 14

RESEARCH GRANT ON DRUG ABUSE

Title **Pengaruh Dadah Di Kalangan Pelajar Baru Institut Pengajian Tinggi**
Type of Grant Khas
Sponsor Kementerian Pengajian Tinggi
Value RM140,000.00
Period 2005
Position **MAIN RESEARCHER**
Researchers Prof. Dr. Abd. Majid Mohd Isa, UMT
PM Abdull Halim Abdul, UniMAP
Haji Huzili Hussin, UniMAP
Mohd. Amran Hasan, KPT

Title **Penyalahgunaan Dadah Di Kalangan Pelajar Lama Universiti Awam Malaysia**
Type of Grant Khas
Sponsor Kementerian Pengajian Tinggi
Value RM56,608.80
Period 2007
Position **MAIN RESEARCHER**
Researchers Prof. Dr. Abd. Majid Mohd Isa, UMT
PM Abdull Halim Abdul, UniMAP
Dr. Mohamad Hashim Othman, USM
Haji Huzili Hussin, UniMAP
Norismiza Ismail, UniMAP
Nor Azmah Abd. Karim, UniMAP
Ku Azira Ku Aziz, UniMAP

Title **Penyalahgunaan Dadah Di Kalangan Pelajar Politeknik**
Type of Grant Khas
Sponsor Kementerian Pengajian Tinggi
Value RM140,000.00
Period 2008
Position **MAIN RESEARCHER**
Researchers Prof. Dr. Abd. Majid Mohd Isa, UMT
PM Abdull Halim Abdul, UniMAP
Dr. Mohamad Hashim Othman, USM
Haji Huzili Hussin, UniMAP
Mohamed Abdul Rahman, KPT
Norismiza Ismail, UniMAP
Nor Azmah Abd. Karim, UniMAP
Ku Azira Ku Aziz, UniMAP

Title	Penyalahgunaan Dadah Di Kalangan Pelajar Kolej Komuniti
Type of Grant	Khas
Sponsor	Kementerian Pengajian Tinggi
Value	RM170,000.00
Period	2009
Position	MAIN RESEARCHER
Researchers	Prof. Dr. Abd. Majid Mohd Isa, UMT PM Abdull Halim Abdul, UniMAP Dr. Mohamad Hashim Othman, USM Dr. Saharudin Haji Ismail, KPT Haji Huzili Hussin, UniMAP Norismiza Ismail, UniMAP Nor Azmah Abd. Karim, UniMAP Ku Azira Ku Aziz, UniMAP
Title	Penyalahgunaan Dadah Di Kalangan Pelajar Institusi Pengajian Tinggi Swasta
Type of Grant	Khas
Sponsor	Kementerian Pengajian Tinggi
Value	RM190,000.00
Period	2010
Position	MAIN RESEARCHER
Researchers	Prof. Dr. Abd. Majid Mohd Isa, UniMAP PM Abdull Halim Abdul, UniMAP Dr. Mohamad Hashim Othman, USM Haji Huzili Hussin, UniMAP Nor Azmah Abd. Karim, UniMAP Ku Azira Ku Aziz, UniMAP Norismiza Ismail, UniMAP
Title	Kajian Penyalahgunaan Dadah Di Kalangan Pelajar Luar Negara, Institut Pengajian Tinggi Awam dan Swasta
Type of Grant	Khas
Sponsor	Kementerian Pengajian Tinggi
Value	RM 180,000.00
Period	2010
Position	MAIN RESEARCHER
Researchers	Prof. Dr. Abd. Majid Mohd Isa, UniMAP PM Abdull Halim Abdul, UniMAP Dr. Mohamad Hashim Othman, USM Haji Huzili Hussin, UniMAP Norismiza Ismail, UniMAP Nor Azmah Abd. Karim, UniMAP Ku Azira Ku Aziz, UniMAP
Title	Kajian Penyalahgunaan Dadah Di Kalangan Pelajar Berisiko Tinggi, Institusi Pengajian Tinggi Awam

Type of Grant Khas
 Sponsor Kementerian Pengajian Tinggi
 Value RM160,000.00
 Period 2011/2012
 Position **MAIN RESEARCHER**
 Researchers Prof. Dr. Abd. Majid Mohd Isa, UCSA
 Prof. Dato' Dr. Mahmood Nazar Mohamad, CUCMS (mantan TKP AADK)
 Prof. Madya Abdull Halim Abdul, UniMAP
 Prof. Madya Dr. Mohamad Hashim Othman, USM
 Prof. Madya Dr. Abdul Rani Kamarudin, UIAM
 Haji Huzili Hussin, UniMAP
 Shafiq Hizwari Hashim, UniMAP
 Nor Azmah Abd. Karim, UniMAP
 Ku Azira Ku Aziz, UniMAP
 Noordini Idrus, UniMAP

Title **Bengkel Penyediaan *Standard Operating Procedure (SOP)* Pencegahan Dadah, Substan & Alkohol Institusi Pengajian Tinggi (IPT)**

Type of Grant Khas
 Sponsor Kementerian Pengajian Tinggi
 Value RM140,000.00
 Period 2011/2012
 Position **ADVISOR**
 Researchers Prof. Dr. Abd. Majid Mohd Isa, UCSA
 Prof. Dato' Dr. Mahmood Nazar Mohamad, CUCMS (mantan TKP AADK)
 Prof. Madya Dr. Mohamad Hashim Othman, USM
 Prof. Madya Dr. Abdul Rani Kamarudin, UIAM
 Haji Huzili Hussin, UniMAP
 En. Mohamad Mos, UIAM
 Nor Azmah Abd. Karim, UniMAP

Title **Program *Training of Trainer (TOT)* – Perlaksanaan Garis Panduan Pencegahan Dadah, Substan dan Alkohol IPT-KPT**

Type of Grant Khas
 Sponsor Kementerian Pengajian Tinggi
 Value RM140,000.00
 Period 2013/2014
 Position **ADVISOR**
 Researchers Prof. Dr. Abd. Majid Mohd Isa, UniMAP
 Prof. Dato' Dr. Mahmood Nazar Mohamad, CUCMS (mantan TKP AADK)
 Prof. Madya Dr. Mohamad Hashim Othman, USM
 Prof. Madya Dr. Abdul Rani Kamarudin, UIAM
 Dr. Hj. Huzili Hussin, UniMAP
 En. Mohamad Mos, UIAM
 Nor Azmah Abd. Karim, UniMAP
 Ku Azira Ku Aziz, UniMAP

Title **Lawatan Penanda Aras ke Agensi Pencegahan Dadah, Substan dan Alkohol**
 Type of Grant Khas
 Sponsor Kementerian Pengajian Tinggi
 Value RM140,000.00
 Period 2013/2014
 Position **MAIN RESEARCHER**
 Researchers Prof. Dr. Abd. Majid Mohd Isa, UniMAP
 Prof. Madya Dr. Mohamad Hashim Othman, USM
 Prof. Madya Dr. Abdul Rani Kamarudin, UIAM
 Dr. Hj Huzili Hussin, UniMAP
 En. Mohamad Mos, UIAM
 En Ahmad Khuzaimi Bahri, KPT
 Nor Azmah Abd. Karim, UniMAP
 Ku Azira Ku Aziz, UniMAP

Title **Kajian Penyalahgunaan Dadah, Substan dan Alkohol bagi Pelajar Berosiko Tinggi IPT (Politeknik)**
 Type of Grant Khas
 Sponsor Kementerian Pengajian Tinggi
 Value RM160,000.00
 Period 2013/2014
 Position **MAIN RESEARCHER**
 Researchers Prof. Dr. Abd. Majid Mohd Isa, UniMAP
 Prof. Madya Dr. Mohamad Hashim Othman, USM
 Prof. Madya Dr. Abdul Rani Kamarudin, UIAM
 Dr. Hj Huzili Hussin, UniMAP
 Nor Azmah Abd. Karim, UniMAP
 Ku Azira Ku Aziz, UniMAP

Title **Konvensyen Pencegahan Penyalahgunaan Dadah, Substan dan Alkohol IMT-GT kali ke 2**
 Type of Grant Khas
 Sponsor Kementerian Pengajian Tinggi
 Value RM160,000.00
 Period 2013/2014
 Position **LEADER**
 Researchers Prof. Dr. Abd. Majid Mohd Isa, UniMAP
 Prof. Madya Dr. Mohamad Hashim Othman, USM
 Prof. Madya Dr. Abdul Rani Kamarudin, UIAM
 Dr. Hj Huzili Hussin, UniMAP
 En. Mohamad Mos, UIAM
 Nor Azmah Abd. Karim, UniMAP
 Ku Azira Ku Aziz, UniMAP

Title **Program Garis Panduan Pencegahan Dadah, Substan dan Alkohol IPT**
 Type of Grant Khas
 Sponsor Kementerian Pengajian Tinggi
 Value RM100,000.00
 Period 2014/2015

Position	ADVISOR
Researchers	Prof. Dr. Abd. Majid Mohd Isa, UniMAP Prof. Dato' Dr. Mahmood Nazar Mohamad, CUCMS (mantan TKP AADK) Prof. Madya Dr. Mohamad Hashim Othman, USM Prof. Madya Dr. Abdul Rani Kamarudin, UIAM Dr. Hj Huzili Hussin, UniMAP En. Mohamad Mos, UIAM En Ahmad Khuzaimi Bahri, KPM Nor Azmah Abd. Karim, UniMAP Ku Azira Ku Aziz, UniMAP
Title	Program Keberkesanan Kriteria Pelajar Berisiko dan Instrumen Psikometrik (Kolej Komuniti)
Type of Grant	Khas
Sponsor	Kementerian Pengajian Tinggi
Value	RM200,000.00
Period	2014/2015
Position	MAIN RESEARCHER
Researchers	Prof. Dr. Abd. Majid Mohd Isa, UniMAP Prof. Madya Dr. Mohamad Hashim Othman, USM Prof. Madya Dr. Abdul Rani Kamarudin, UIAM Dr. Hj Huzili Hussin, UniMAP En. Mohamad Mos, UIAM En Ahmad Khuzaimi Bahri, KPM Nor Azmah Abd. Karim, UniMAP Ku Azira Ku Aziz, UniMAP

APPENDIX 15

AWARD AND MEDAL IN RESEARCH ACTIVITIES

➤ GOLD AWARD

- i. Research Excellence Award (Co Researcher) Pro- Eco Paint : Novel Multipurpose Kaolin Based Paint
Istanbul Congress Center, Turkey
- ii. Research Excellence Award (Co Researcher) : Geopipe : A Novel Geopolymer based GRE for High Performance Pipeline
European Exhibition Of creativity and Innovation (EUROINVENT 2016), Romania
- iii. Research Excellence Award (Co Researcher) : Smart Geopolymer Damp Proof
Kaohsiung International Design and Expo (KIDE 2016), Kaohsiung, Taiwan.
- iv. Research Excellence Award (Co Researcher) : GPCrete : Multipurpose Repair Material
Japan Design & Invention Expo 2016, Tokyo Big Sight, Japan
- v. Research Excellence Award (Co Researcher) : Pro- Eco Paint : Novel Multipurpose Kaolin Based Paint
Ekspo Rekacipta UniMAP 2016 (EREKA2016), UniMAP
- vi. Research Excellence Award (Co Researcher) : Geopipe : A Novel Geopolymer based GRE for High Performance Pipeline
Ekspo Rekacipta UniMAP 2016 (EREKA2016), UniMAP
- vii. Research Excellence Award (Co Researcher) : Novel Biomedical EVA Nanocomposite incorporating Multifunctional Nanofiller for Implantable and Non Implantable Medical Devices
Thailand Inventors Day , Bangkok, Thailand
- viii. Research Excellence Award (Co Researcher) : Novel Geoplastic for Pipe Application
Thailand Inventors Day , Bangkok, Thailand
- ix. Research Excellence Award (Co Researcher) : High Chemical Resistance Geopolymer Pipeline
12th International Invention Exhibiton (ARCA 2014) Zagreb, Croatia
- x. Research Excellence Award (Co Researcher) : Synthesis of Curprous Oxide Thin Film for the Photoelectrochemical Cell (PEC) Application
12th International Invention Exhibiton (ARCA 2014) Zagreb, Croatia
- xi. Research Excellence Award (Co Researcher) : Anti-Corrosion Coating
British Invention Show (BIS 2014)
- xii. Research Excellence Award (Co Researcher) : A New Sustainable Lightweight Structural

- European Exhibiton of Creativty and Innovation (EUROINVENT 2014) Iasi,Romania
- xiii. Research Excellence Award (Co Researcher) : Fly Ash Artificial Geopolymer Aggregate Using Low Temperature
European Exhibiton of Creativty and Innovation (EUROINVENT 2014) Iasi,Romania
 - xiv. Research Excellence Award (Co Researcher) : Towards Green Construction Materials: Geopolymer Composite Brick Fabrication Machine
European Exhibiton of Creativty and Innovation (EUROINVENT 2014) Iasi,Romania
 - xv. Research Excellence Award (Co Researcher) : From Waste to Wealth : Boiler Ash Geopolymer Composite
24th International Invention, Innovation, Industrial Design & Technology Exhibition 2012 (ITEX) KLCC,Kuala Lumpur
 - xvi. Research Excellence Award (Co Researcher) : Geopolymer Composite Radiation Shielding Panel
24th International Invention, Innovation, Industrial Design & Technology Exhibition 2012 (ITEX) KLCC,Kuala Lumpur
 - xvii. Research Excellence Award (Co Researcher) : Continous Fiber-Geopolymer Composite Via Filament Winding
17th Moscow Salon of International Invention and Innovation Technologies
 - xviii. Research Excellence Award (Co Researcher) : Geopolymer Composite
17th Moscow Salon of International Invention and Innovation Technologies
 - xix. Research Excellence Award (Co Researcher) : Geopolymer Composites Radiation Shielding Panel
Ekspo Rekacipta UniMAP 2013, UniMAP
 - xx. Research Excellence Award (Co Researcher) : Alkali Activated Boiler Ash Composites
Pameran Ekspo Rekacipta UniMAP 2013, UniMAP
 - xxi. Research Excellence Award (Co Researcher) : A Novel Multipurpose Geopolymer Paint
Seoul International Invention Fair (SIF 2013) Seoul,Korea
 - xxii. Research Excellence Award (Co Researcher) : A Novel Granulated Solder Machine
International Invention Show (INOVA 2013) Zagreb, Croatia
 - xxiii. Research Excellence Award (Co Researcher) : Alkaline Activated Environmental Friendly Composite Materials
International Trad Fair, Ideas Inventions New Products (IENA 2013) Nuremberg, Jerman
 - xxiv. Research Excellence Award (Co Researcher) : Natural Fibre Based Geopolymer Composite Via Filament Winding
International Warsaw Invention Show (IWIS 2013) Warsaw

- xxv. Research Excellence Award (Co Researcher) : A New Development of High Strength Hybrid Rapid Microwave Sintered Nanocomposite Solder for Electronic Packaging Joining Application
International Warsaw Invention Show (IWIS 2013) Warsaw
- xxvi. Research Excellence Award (Co Researcher) : Advanced Geopolymer Ceramic for High Temperature
International Warsaw Invention Show (IWIS 2013) Warsaw
- xxvii. Research Excellence Award (Co Researcher) : A New Multi-Purpose Green Composite
International Warsaw Invention Show (IWIS 2013) Warsaw
- xxviii. Research Excellence Award (Co Researcher) : A Novel Oxo-Biodegradable Plastics Using Natural Pro- Oxidant
International Warsaw Invention Show (IWIS 2013) Warsaw
- xxix. Research Excellence Award (Co Researcher) : Fly Ash Based Geopolymer as Lightweight Artificial Aggregate Using Low Temperature
International Youth Invention Contest (IYIC 2013) Seoul,Korea
- xxx. Research Excellence Award (Co Researcher) : A new Advanced Technology Approach Using Geopolymerization Process for X-Ray Shielding
International Youth Invention Contest (IYIC 2013) Seoul,Korea
- xxxi. Research Excellence Award (Co Researcher) : Anti Corrosion Coating : New Advanced Technology Approach
European Exhibiton of Creativty and Innovation (EUROINVENT 2013) Iasi,Romania
- xxxii. Research Excellence Award (Co Researcher) : A Novel Palm Oil Fuel Ash (POFA) Geopolymer Composite
European Exhibiton of Creativty and Innovation (EUROINVENT 2013) Iasi,Romania
- xxxiii. Research Excellence Award (Co Researcher) : Anti Corrosion Coating : New Advanced Technology Approach
24th International Invention Innovation & Technology Exhibition
- xxxiv. Research Excellence Award (Co Researcher) : High Chemical Resistance Geopolymer Pipeline (HCRGC)
Korea International Women Invention Exposition (KIWIE 2013) Seoul,Korea
- xxxv. Research Excellence Award (Co Researcher) : High Fire Resistance Lightweight Geopolymer Concrete
Ekspo Rekacipta dan Pameran Penyelidikan UniMAP
- xxxvi. Research Excellence Award (Co Researcher) : Anti-Corrosion Coating : New Technology Applied
Ekspo Rekacipta dan Pameran Penyelidikan UniMAP

- xxxvii. Research Excellence Award (Co Researcher) : Biofriendly and Long- Lasting Secondary Galvanic Cell for Undeground Protection
Ekspo Rekacipta dan Pameran Penyelidikan UniMAP
- xxxviii. Research Excellence Award (Co Researcher) : A Novel Multipurpose Geopolymer Coating
Korea Cyber International Genius Inventor Fair (CIGIF2012) Seoul,Korea
- xxxix. Research Excellence Award (Co Researcher) : A Novel An Environmental Friendly Cement and Concrete
Korea Cyber International Genius Inventor Fair (CIGIF2012) Seoul,Korea
- xl. Research Excellence Award (Co Researcher) : Artificial Rock from LUSI Mud
37th International Invention Show (INOVA) Sibenik, Croatia
- xli. Research Excellence Award (Co Researcher) : 37th International Invention Show (INOVA) Sibenik, Croatia
- xliv. Research Excellence Award (Co Researcher) : A Novel Multipurpose Effective Microorganism (EM) SMaRT Ball
Pameran 37th International Invention Show (INOVA) Sibenik, Croatia
- xlvi. Research Excellence Award (Co Researcher) : A Novel Geopolymeric Materials for Various Application
International Trade Fair, Ideas, Inventions & New Products (IENA 2012),Jerman
- xlvi. Research Excellence Award (Co Researcher) : A Novel Thermoplastics Impregnated Wood
International Exhibition of Inventions (Kushan), New Techniques and Products (IEIK 2012) kali ke 7, Kushan,China
- xlvi. Research Excellence Award (Co Researcher) : A Novel Anti- Corrosion Geopolymer Coating
International Exhibition of Inventions (Kushan), New Techniques and Products (IEIK 2012) kali ke 7, Kushan, China
- xlvi. Research Excellence Award (Co Researcher) : A Novel Industrial Waste Filler Brake Pad
International Exhibition of Inventions (Kushan), New Techniques and Products (IEIK 2012) kali ke 7, China
- xlvi. Research Excellence Award (Co Researcher) : A Novel Multipurpose Geopolymer Construction Materials
2012 Macau Communication & International Innovation & Invention Expo
- xlvi. Research Excellence Award (Co Researcher) : Green Natural Organic Surface Finish (G-NOSF)- A New Generation of Surface Finish Material for Electronic Metallization Application
European Exhibition of Creativity and Innovation- EUROINVENT 2012, Iasi,Romania

- xlix. Research Excellence Award (Co Researcher) : A Novel Multipurpose Effective Microorganism (EM) SMaRT Ball
European Exhibition of Creativity and Innovation- EUROINVENT 2012, Iasi, Romania
 - I. Research Excellence Award (Co Researcher) : Geopolymer Concrete
European Exhibition of Creativity and Innovation- EUROINVENT 2012, Iasi, Romania
 - ii. Research Excellence Award (Co Researcher) : A Novel Waste Filler Friction Composite
European Exhibition of Creativity and Innovation- EUROINVENT 2012, Iasi, Romania
 - lii. Research Excellence Award (Co Researcher) : Geopolymer Concrete
European Exhibition of Creativity and Innovation- EUROINVENT 2012, Iasi, Romania
 - liiii. Research Excellence Award (Co Researcher) : A Novel Environmental Friendly Composite for Construction Materials.
Korea International Women Invention Exposition –KIWIE 2012, Korea
 - liv. Research Excellence Award (Co Researcher) : A Novel Multipurpose Geopolymer Coating Paint & A Novel Environmental Friendly Composite for Construction Materials.
Korea International Women Invention Exposition –KIWIE 2012, Korea
 - lv. Research Excellence Award (Co Researcher) : Go Green, Think Eco-Composite
23rd International Invention, Innovation, Industrial Design & Technology Exhibition 2012 (ITEX)
 - lvi. Research Excellence Award (Co Researcher) : Development of a Novel Lead Free Composite Solder.
Malaysian Technology Expo-MTE 2012
 - lvii. Research Excellence Award (Co Researcher) : A Novel Multipurpose Geopolymer Coating Paint.
Malaysian Technology Expo-MTE 2012
 - lviii. Research Excellence Award (Co Researcher) : A Novel An Environmental Friendly Cement And Concrete
PECIPTA 2011
 - lix. Research Excellence Award (Co Researcher) : A Novel An Environmental Friendly Cement And Concrete
British Invention Show (BIS) 2011
 - lx. Research Excellence Award (Co Researcher) : A Novel Green Cement
36TH International Invention Show Zagreb Fair (Inova, Croatia) 2011
 - lxi. Research Excellence Award (Co Researcher) : RP Fiber – Recycled Plastic Fiber
36TH International Invention Show Zagreb Fair (Inova, Croatia) 2011
 - lxii. Research Excellence Award (Co Researcher) : GeoCRETE: A Novel Concrete Without Cement

Seoul International Invention Fair (SIIF) 2010

- lxiii. Research Excellence Award (Co Researcher) : Aluminium-Polymer ABS Product
International Trade Fair, Ideas-Inventions New Products (IENA) 2010
- lxiv. Research Excellence Award (Co Researcher) : A Novel Green Polymeric Concrete
Without Cement
International Invention, Innovation, Industrial Design & Technology Exhibition (ITEX)
2010
- lxv. Research Excellence Award (Co Researcher) : Silica Nano-Tube Immobilized With
Cyanex 272 For Environmental Application
British Invention Show (BIS) 2009, London, United Kingdom.
- lxvi. Research Excellence Award (Co Researcher) : Aluminium-Polymer ABS Product
International Invention, Innovation, Industrial Design & Technology Exhibition (ITEX)
2009
- lxvii. Research Excellence Award (Co Researcher) : GeoCRETE: A Novel Concrete Without
Cement
PECIPTA 2009
- lxviii. Research Excellence Award (Co Researcher) : Spossorb: Biodegradable Adsorbent for
Oil and Grease Removal,
Seoul International Invention Fair (SIIF) 2008
- lxix. Research Excellence Award (Co Researcher) : X-Waste Brick:Novel Brick From Waste
19th International Invention, Innovation, Industrial Design & Technology Exhibition,
2008
- lxx. Research Excellence Award (Co Researcher) : The Production of Lightweight Aggregates
From Local Waste
35th International Exhibition of Inventions of New Techniques and Products, Geneva,
Switzerland, 2007
- lxxi. Research Excellence Award (Co Researcher) : The Production of Lightweight Aggregates
From Local Waste
International Warsaw Invention Show (IWIS) Warsaw, Poland 2007
- lxxii. Research Excellence Award (Co Researcher) : Décor Concrete Polymer (DCP)
PECIPTA 2007



SILVER AWARD

- i. Research Excellence Award (Co Researcher) : Geo- Ceramic
European Exhibition of Creativity and Innovation (EUROINVENT2016),Romania
- ii. Research Excellence Award (Co Researcher) : Geopipe: A Novel Geopolymer Based GRE
for High Performance Pipeline
Malaysia Technology Expo (MTE2016),Kuala Lumpur
- iii. Research Excellence Award (Co Researcher) : Eco Paint
Malaysia Technology Expo (MTE2016),Kuala Lumpur
- iv. Research Excellence Award (Co Researcher) : Geopolymer Concrete for Sidewalk
Green Technology Research Exposition 2015 (GTReX)
- v. Research Excellence Award (Co Researcher) : A Novel Go Green-Coat
Green Technology Research Exposition 2015 (GTReX)
- vi. Research Excellence Award (Co Researcher) : A Novel Electro-Aquatic Circuit Breaker in
Flood Prone Area from E-Waste
Seoul International Invention Fair (SIIF 2014) Seoul, Korea
- vii. Research Excellence Award (Co Researcher) : Nanocomposite Solder Material
Fabricated Using Innovative Hybrid Microwave Assisted Rapid Sintering
European Exhibition of Creativity and Innovation- EUROINVENT 2014, Iasi,Romania
- viii. Research Excellence Award (Co Researcher) : Anti Radiation Geopolymer Composite
Korea International Women Invention Exposition –KIWIE 2014 , Korea
- ix. Research Excellence Award (Co Researcher) : Pulfmap- A Novel Geopolymer Ceramic
Korea International Women Invention Exposition –KIWIE 2014 , Korea
- x. Research Excellence Award (Co Researcher) : Pulfmap- A New Generation of
Lightweight Structural
17th Moscow Salon of International Invention and Innovation Technologies
- xi. Research Excellence Award (Co Researcher) : Industrial Solid Waste Brake Pad
17th Moscow Salon of International Invention and Innovation Technologies
- xii. Research Excellence Award (Co Researcher) : UniMAP Rice Husk Lightweight Aggregate
International Invention Show (INOVA 2013) Zagreb,Croatia
- xiii. Research Excellence Award (Co Researcher) : A New Generation of Green Pallet
Seoul International Invention Fair (SIIF 2013) Seoul, Korea
- xiv. Research Excellence Award (Co Researcher) : The Novel Usage of Phoenix Dactynifera
(Palm Date) Seeds
International Warsaw Invention Show (IWIS 2013) Warsaw

- xv. Research Excellence Award (Co Researcher) : Alcohol Tester
24th International Invention, Innovation, Industrial Design & Technology Exhibition 2013 (ITEX)
- xvi. Research Excellence Award (Co Researcher) : A Novel Volcano Ash Artificial Aggregate
Korea International Women Invention Exposition –KIWIE 2013, Korea
- xvii. Research Excellence Award (Co Researcher) : A Novel Geopolymer Binder Composites
Malaysia Technology Expo (MTE 2013) Kuala Lumpur
- xviii. Research Excellence Award (Co Researcher) : A Novel Volcano Ash Artificial Geopolymer
Aggregate
Malaysia Technology Expo (MTE 2013) Kuala Lumpur
- xix. Research Excellence Award (Co Researcher) : Artificial Aggregate from Volcano Mud
Korea Cyber International Genius Inventor Fair (CIGIF2012) Seoul, Korea
- xx. Research Excellence Award (Co Researcher) : Edible Food Container
BioMalaysia Conference & Exhibition 2012, KLCC, Kuala Lumpur
- xxi. Research Excellence Award (Co Researcher) : A New Generation of Nanocomposite
Solder
International Trade Fair, Ideas, Inventions & New Products (IENA 2012), Jerman
- xxii. Research Excellence Award (Co Researcher) : Environmental Friendly Composite
Construction Materials
23rd International Invention, Innovation, Industrial Design & Technology Exhibition 2012 (ITEX)
- xxiii. Research Excellence Award (Co Researcher) : A Novel Green Cement
Malaysia Technology Expo (MTE) 2011
- xxiv. Research Excellence Award (Co Researcher) : Robust Novel Green Nano Composite
Solder
22nd International Invention, Innovation, Industrial Design & Technology Exhibition 2011 (ITEX)
- xxv. Research Excellence Award (Co Researcher) : Polymer Nano Composite Angioplasty
Balloon
22nd International Invention, Innovation, Industrial Design & Technology Exhibition 2011 (ITEX)
- xxvi. Research Excellence Award (Co Researcher) : RF Fiber – Recycled Plastic Fiber
22nd International Invention, Innovation, Industrial Design & Technology Exhibition 2011 (ITEX)
- xxvii. Research Excellence Award (Co Researcher) : Smart Qiblat
22nd International Invention, Innovation, Industrial Design & Technology Exhibition 2011 (ITEX)

- xxviii. Research Excellence Award (Co Researcher) : AGROSENSE
22nd International Invention, Innovation, Industrial Design & Technology Exhibition 2011
(ITEX)
- xxix. Research Excellence Award (Co Researcher) : A Novel Aluminium-Polypropylene
Materials For Decoration Product
PECIPTA 2011
- xxx. Research Excellence Award (Co Researcher) : BIOHIMAG: Biofriendly, High Potential &
High Efficiency Magnesium Sacrificial Anode
PECIPTA 2011
- xxxi. Research Excellence Award (Co Researcher) : UniMAP Green Brake Pad
International Invention, Innovation, Industrial Design & Technology Exhibition (ITEX)
2010
- xxxii. Research Excellence Award (Co Researcher) :Cast Al-PP Decoration Product
International Invention, Innovation, Industrial Design & Technology Exhibition (ITEX)
2010
- xxxiii. Research Excellence Award (Co Researcher) : Agro Fiber Polymer Composite Panel
37th International Exhibition of Inventions of New Techniques and Products, Geneva,
Switzerland, 2009
- xxxiv. Research Excellence Award (Co Researcher) : Modified Artificial Aggregate From
Polymer Waste For Non-Structural Concrete
37th International Exhibition of Inventions of New Techniques and Products, Geneva,
Switzerland, 2009
- xxxv. Research Excellence Award (Co Researcher) : Light Weight Roofing Tiles With Rubber
Dust Powder & Cement
Malaysian Technology Expo (MTE) 2009
- xxxvi. Research Excellence Award (Co Researcher) : Typha Latifolia Natural Fiber
International Invention, Innovation, Industrial Design & Technology Exhibition (ITEX)
2009
- xxxvii. Research Excellence Award (Co Researcher) : Environmental Friendly Sound Proof
Cement Composite Board
International Invention, Innovation, Industrial Design & Technology Exhibition (ITEX)
2009
- xxxviii. Research Excellence Award (Co Researcher) : Light Weight Roofing Tiles
PECIPTA 2009
- xxxix. Research Excellence Award (Co Researcher) : Aluminium Filled Polymer Via Casting
Technique
PECIPTA 2009

- xl. Research Excellence Award (Co Researcher) : PC(Polystyrene Concrete)
International Exhibition of Ideas-Inventions-New Products (iENA) 2008, Nuremberg, Germany
- xli. Research Excellence Award (Co Researcher) : Recycling Engineering of PCBs For Copper Recovery
36th International Inventions, New Techniques and Products, (2008) Geneva, Switzerland
- xlii. Research Excellence Award (Co Researcher) : Modified Polymer Artificial Aggregates
19th International Invention, Innovation, Industrial Design & Technology Exhibition, 2008
- xliii. Research Excellence Award (Co Researcher) : Agro Fiber Deco Panel
19th International Invention, Innovation, Industrial Design & Technology Exhibition, 2008
- xliv. Research Excellence Award (Co Researcher) : Domigreasae - Grease From Dolomite
19th International Invention, Innovation, Industrial Design & Technology Exhibition, 2008
- xlv. Research Excellence Award (Co Researcher) : Domigreasae - Silica Nano-Tube Immobilized With Cyanex 272 For Environmental Application
19th International Invention, Innovation, Industrial Design & Technology Exhibition, 2008
- xlvi. Research Excellence Award (Co Researcher) : Domigreasae - Virgin Coconut Oil and Derivates
19th International Invention, Innovation, Industrial Design & Technology Exhibition, 2008
- xlvii. Research Excellence Award (Co Researcher) : SPHOGSORB : Biodegradable Absorbent for Oil and Grease Trap
18th International Invention, Innovation, Industrial Design & Technology Exhibition, 2007
- xlviii. Research Excellence Award (Main Researcher) : SPHOGSORB : Recycling Engineering of PCBs for Cooper Recovery
18th International Invention, Innovation, Industrial Design & Technology Exhibition, 2007
- xlix. Research Excellence Award (Co Researcher) : SPHOGSORB : PC (Polystyrene Concrete)
18th International Invention, Innovation, Industrial Design & Technology Exhibition, 2007
- I. Research Excellence Award (Co Researcher) : KUKUM Impreg Wood
17th International Invention, Innovation, Industrial Design & Technology Exhibition, 2006

- li. Research Excellence Award (Co Researcher) : The Production of Lightweight Aggregates Using Fly Ash
17th International Invention, Innovation, Industrial Design & Technology Exhibition, 2006
- lii. Research Excellence Award (Main Researcher) : KUKUM Artificial Marble
34th International Exhibition of Inventions of New Techniques and Products, Geneva, Switzerland, 2006

➤ **BRONZE AWARD**

- i. Research Excellence Award (Co Researcher) : New Technique for soil Stabilization
International Invention, Innovation and technology Exhibition(ITEEX2016),Kuala Lumpur
- ii. Research Excellence Award (Co Researcher) : A Novel Geopolymer Binder Friction Composite
12th International Invention Exhibiton (ARCA 2014) Zagreb, Croatia
- iii. Research Excellence Award (Co Researcher) : New Multipurpose Artificial Infills
Ekspo Rekacipta & Penyelidikan UniMAP
- iv. Research Excellence Award (Co Researcher) : A Novel Thermoplastics Impregnated Wood
International Exhibition of Inventions (Kushan), New Techniques and Products (IEIK 2012) kali ke 7, Kushan,China
- v. Research Excellence Award (Co Researcher) : A Novel Thermoplastics Impregnated Wood
8th Taipei International Invention (INST2012)
- vi. Research Excellence Award (Co Researcher) : Lightweight Geopolymer Concrete
22nd International Invention, Innovation, Industrial Design & Technology Exhibition 2011 (ITEX)
- vii. Research Excellence Award (Co Researcher) : Crystal-Like Polystyrene Via Simple Process
22nd International Invention, Innovation, Industrial Design & Technology Exhibition 2011 (ITEX)
- viii. Research Excellence Award (Co Researcher) : Novel Multi-Purpose Green Composites (MGCS)
BioMalaysia 2011

- ix. Research Excellence Award (Co Researcher) : Smart Reagent for The Recovery Of Copper From PCB
International Invention, Innovation, Industrial Design & Technology Exhibition (ITEX) 2010
- x. Research Excellence Award (Co Researcher) : Development Of Geopolymer For Construction As Alternatives To Ordinary Portland Cement
Malaysian Technology Expo (MTE) 2009
- xi. Research Excellence Award (Co Researcher) : BIOFERTILIZER : An Organic Liquid Fish Fertilizer From Fish Waste
Pameran Bio Malaysia 2009
- xii. Research Excellence Award (Co Researcher) : Décor Polymer Concrete (DPC)
Malaysian Technology Expo (MTE) 2008
- xiii. Research Excellence Award (Co Researcher) : Impreg Wood
35th International Exhibition of Inventions of New Techniques and Products, Geneva, Switzerland, 2007
- xiv. Research Excellence Award (Co Researcher) : Portable Aerohub – UniMAP Fire Fighter
18th International Invention, Innovation, Industrial Design & Technology Exhibition, 2007
- xv. Research Excellence Award (Co Researcher) : SPOSSORB: Biodegradable Adsorbents for Oil and Grease Removal
PECIPTA 2007
- xvi. Research Excellence Award (Co Researcher) : Grass-Plastics Composite Panel (GPC Panel)
PECIPTA 2007
- xvii. Research Excellence Award (Co Researcher) : Concrete Ceramic Waste Slab
17th International Invention, Innovation, Industrial Design & Technology Exhibition, 2006
- xviii. Research Excellence Award (Co Researcher) : Micro Capsule with Functional Group for Diverse Application
17th International Invention, Innovation, Industrial Design & Technology Exhibition, 2006

➤ **RESEARCH EXCELLENCE AWARD 2005**

- i. Main Researcher : KUKUM Artificial Marble
- ii. Main Researcher: Distributed Campus Time Attendance System/k-Kedatangan