

Assoc Prof Dr. SALMIAH BINTI KASOLANG



Attached To:

**Center for Tribology (CenTRIB)
Faculty of Mechanical Engineering
Universiti Teknologi MARA
40450 Shah Alam, Selangor, MALAYSIA**

Main Designations:

1. Associate Professor/Lecturer
2. Deputy Dean (Research, Industry-Community-Alumni Networking, Employability and Entrepreneur)
3. Founder of Center for Tribology (CENTRIB), Research Interest Group
4. Chairman of iMETA, Institute of Mechanical Engineering and Technology Advancements

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FIELD OF SPECIALISATION

TRIBOLOGY (Friction, Wear, and Lubrication)

Research Interest:

- Hydrodynamic lubrication in journal bearings
 - Wear Testing and analysis
 - Oil Analysis Technique
 - Numerical simulation of lubrication
 - Tribology in Human Biological System
 - Ultrasonic reflection measurement technique
 - Total Quality Management, Lean Manufacturing, and Environmental Management System
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EDUCATION

PhD (Mechanical & Manufacturing Engineering) University of Sheffield, UNITED KINGDOM Thesis Title: "An Ultrasonic Investigation of Various Aspects of Hydrodynamic Lubrication in a Journal Bearing"	2008
M.Sc. in Manufacturing System Engineering Universiti Putra Malaysia (UPM), MALAYSIA Thesis Title: "Implementation of Total Quality Management in the Malaysian Automotive Vendors"	2001
B. Sc. In Agricultural Engineering University of Wisconsin-Madison, UNITED STATES OF AMERICA	1992

PROFESSIONAL AFFILIATION

The Board of Engineers Malaysia (BEM); Graduate Member (56761A)	2008 – present
Malaysian Tribology Society (MYTRIBOS) (11574219)	2009 – present

LANGUAGE

Malay Language
English

WORKING EXPERIENCE

The Universiti Teknologi MARA (1995 – present)	
Centre for Preparatory Studies (Pusat Pengajian Persediaan, PPP)	1995 -1996
Faculty of Mechanical Engineering Shah Alam Campus	1997 – present
Leadership and Administrative Experience	
Deputy Dean: Research, Industry-Community-Alumni Networking, Employability, and Entrepreneur: <ul style="list-style-type: none"> ○ Management of Research: Managing matters and activities related to Research, Publication, and Consultation; To culture research and publication among staff; Application of various research grants such as FRGS, ERGS, PRGS, LRGS, e-Science, and Knowledge Transfer Program (KTP); Publications in indexed database; Consultation; Promoting Invention, Innovation, and Design. ○ Industry-Community-Academia Linkage: Building-up linkages with industry, community, and academia; To get at least three new linkages per year; To follow through MoUs and materials the impact. ○ Management of Centers of Excellence (CoEs) ○ Management of Staff: Monitoring of staff performance in meeting research KPIs ○ Employability of Students: Manage activities that promote employability of students; mobility of students abroad; certification programmes; placement of students for industrial training; involvements of students in students chapters and various competitions; Profesional talk series for students; ○ Development of Entrepreneur Skills: Monitoring of activities related to entrepreneurial acculturization. ○ Budget preparation and management: Budget preparation for all the relevant activities under deputy deanship. ○ Quality Management System: ISO Certification; Strategic Plans; AKNC Documentation; Internal Audit; Accreditation of Academic Programmes. ○ Organizing International Conferences: International Conference on Advances in Mechanical Engineering (ICAME), Malaysian International Tribology Conference (MITC), International Symposium on Robotics and Intelligent Sensors (IRIS). 	2009 – present
Executive Board of Faculty	2009 - present
Chairman of Institute of Mechanical Engineering and Technology Advancements (iMETA)	2009 - present
Head of Tribology, Special Interest Group	2008 – present
Head of AKNC Committee	2009 - present
Head of Internal Audit (ISO 9001:2008)	2008 – 2008
Management Representastive (Wakil Pengurusan)	2009 - 2009
Document Officer, ISO 9001:2000	2002 – 2003
Chairman of various committees under Deputy Dean	2009 – present
Chairman of various International Conferences (ICAME2009/2010/2013, MITC2013, IRIS2010/2012)	2009 - present

Student Development Officer/ Resident Staff	1995 - 2000
Academia and Research:	
Assoc. Professor/ Researcher	2009 - present
<ul style="list-style-type: none"> ○ Involved in development and application of a new approach of teaching-learning: conceive-design-implement-operate, CDIO (the approach helps to map and inter-connect overall programme lesson plans, guide and groom students in better ways of thinking, organize their knowledge, soft skills in implementing or creating a specific project or product based) ○ Leading by example by developing personal strength in leadership, academics, and research. ○ Mentoring young lecturers in teaching-learning, research involvement, research grant application and management activities. ○ Develop national and international industrial linkage in research, students project supervision and consultancy work. ○ Chairing various international conferences ○ Develop a new elective course for undergraduate and design equivalent course for Masters Programme. 	
Lecturer	1995 - present
Panel Assessor (Undergraduate:Proposals, Progress and Final Year Project Report)	2009 - present
Master of Trainer for Conceive-Design-Implement-Operate Implementation	2012-present
Panel Assessor (MSc; Proposals, and Progress Report)	2009 - present
Faculty Academic Board	2009 – present
Board of Curriculum Review	2009 - present
Panel Assessor (PhD; Proposals, and Progress Report)	2009 - present
Member of Accreditation Committee	2009 - present
Board of Postgraduate Studies	2009 - present
Member of Humonoid Robots & Biosensing Center (HuRoBS)	2009 - present
Member of New Program Development Team B. Eng (Hons.) Manufacturing (Management)	2010 – present
MSc Research Supervision	2009 - present
PhD Research Supervision	1995-2000

A.1 TEACHING AND LEARNING

A.1.1 List of Courses taught (2001 – 2012)

No.	Course Name	Level	Year
1	Physics	Diploma	1995-1996
2	Engineering Science	Diploma	1997-2000
3	Statics	Bachelor	1997-2000
4	Dynamics	Diploma	1997-2000
5	Thermodynamics	Diploma	1997-2000
6	Strength of Materials	Bachelor	2001-2003
7	Fluid Dynamics I	Bachelor	2001-2003, 2008-2009
8	Fluid Dynamics II	Bachelor	2001-2003
9	Lubrication of Machine Elements	Bachelor	2010-Present
10	Final Year Project I	Bachelor	2009-Present
11	Final Year Project II	Bachelor	2009-Present
12	Engineers in Society	Bachelor	2012

A.2 SUPERVISION OF THESIS/ DISSERTATION/ PRACTICAL TRAINING

A.2.1 Postgraduate (PhD) – Main Supervisor (except when stated)

No.	Name of Students	Thesis/ Research Title	Year
1	Mohd Ali Bin Ahmad	A Non-destructive technique to obtain the tribological aspects of journal bearing using ultrasonic reflection measurement.	2009 Writing up
2	Noor Azlina Mohd Salleh	New framework model of integrated total quality management and lean manufacturing for automotive vendors	2010 Waiting for viva
3	Diyar I. Ahmed	Formulation, performance evaluation and prediction of newly bio-lubricant in hydrodynamic journal bearing	2010 Submitted
4	Ajmain Bin Kasim	Effects of thermal to the deformation of CNC Machine Tool Spindle	2011 On going

A.2.2 Postgraduate (Master) – Main Supervisor (except when stated)

No.	Name of Students	Thesis/ Research Title	Year
1	Syazuan Bin Abdul Latip	Integrated investigation of tribological aspects of hydrodynamic lubrication in a journal bearing	2009
2	Norhanafiah Binti Abdul Rahman	Investigating the effect of different lubricants conditions on the performance of a diesel engine/ spark-ignition engine	2009
3	Syaiful Azuan Jaafar (2011802338)	Proposed Lean Principles Model in Automotive Service Center for Commercial Vehicle Trucks	2012
4	Mohamad Zaki Keling	Enhancing EDER (Early Detection Early Resolution) Activities Through Problem Solving Method at Toyota Assembly Plant in Malaysia	2012
5	Zulkifli Bin Abdul Ghaffar	Characterization of swirl Effervescent Using Helical Channels	2012-present
6	Aisyah Binti Nor Hasnan (Co-Supervision)	Characterization of Polyol-Dammar with the Addition of Ag/Nano Clay	2012-present

A.2.3 Undergraduate (Bachelor, Final Year Project)–Main Supervisor (except when stated)

No.	Name of Students	Thesis/ Research Title	Year
1	Adie Azhar Rustam	A study into machine tool gearbox	2009
2	Abdul malik mohd idris	Application of tapered roller bearing in lathe machine	2009
3	Agustiansah Muchtar	A study into water pump performance in a car cooling system	2009
4	Ibrahim Sulong	Investigating ball bearing application in a drum brake system	2009
5	Khairul Faizal Kushiar	Water cooling system of Hydro Power Plant: A Case Study	2009
6	Ahamd Faiz bin Samsudin (2005606897)	Thermal Structural Analyses of a Single Clutch Plate in a Manual Car Transmission using Star-Design and Msc. Patran	2009

7	Muhamad Hilme bin Ibrahim (2006690297)	Profiling War on Gears in Diesel Engine Transmission System using Oil Analysis Technique	2010
8	Kamarul Azwan bin Azlan (2006688679)	Wear Characterization of a Diesel Engine using Ferrographic Technique	2010
9	Abdul Hakim bin Ahmad (2006689291)	A Study of Tribological Aspects in Gearbox of CNG Engine	2010
10	Ahmad Nor Azam bin Abd Rahman (2006689595)	A Study of Tribological Aspects in CNG Engine using Oil Analysis Technique	2010
11	Muhamad Hafiz Fikri b. Azizan (2006688741)	Wear Characterization of Automatic Transmission System (AT) Through Oil Analysis Approach	2010
12	Zaid bin Mohd Haslan	Wear Characterization of Carbon Steel Pipe and 13% Chromium Steel Pipe Used in Oil and Gas Piping	2013
13	Sharizad b. Saad (2008299912)	Investigation of the Behaviour of Magnetic Bearings	2013
14	Mohamad Faisal bin Mohamad Taib (2008400706)	Numerical Study of Pressure Distribution Profile of Hydrodynamic Lubrication in Journal Bearing	2013
15	Roy Alexius Nain (2009234742)	Spare Parts Inventory Management System Software Development for PROFOUND HERITAGE Sdn. Bhd.	2013 On going
16	Amir Hamzah b. Abu Samah (2009646118)	Analysis and Selection of Suitable Grease for Continuous Pickling Line (CPL) Machine	2013 On going
17	Terry Joy Nicholas (2009674744)	Surface Engineering: Structural and Thermal Analyses of Car Brake Disc using ANSYS Software	2013 On going

A.2.4 Undergraduate (Diploma, Final Year Project) – Main Supervisor (except when stated)

No.	Name of Students	Thesis/ Research Title	Year
1	Shahidi Saidin, Yusb Ishaq Mohamad, Nor Azman Yasnain, Nor Arizal Abd Ghaffar	Fuel-Injection System	2003
2	Muhamad Shah B. Osmin, Muhammad Fahmi B. Hashim, Mohd Zulharis B. Abd. Kadir, Mohamed Heszuddin Hj. Abu Hassan	2 In 1 Bicycle	2003

B. RESEARCH

NATIONAL LEVEL RESEARCH FUNDING					
	Research Project	Source	Total Funds	Begin Year	End Year
1	A Non-destructive technique to Obtain Tribological Aspects of Journal Bearing using Ultrasonic Reflection Measurement. (Leader)	e-Science MOSTI	RM136,000	2009	2011
2	Performance Characteristics of Lubricant and Wear Characteristics in an Automatic Transmission (AT) System. (Leader)	FRGS MOHE	RM48,000	2010	2012
3	New Framework Model of Intergrated Total Quality Management (TQM) and Lean Manufacturing (LM) for Malaysian Automotive Vendors. (Leader)	FRGS MOHE	RM40,000	2010	2012
4	New Configuration of Meso-Scale Hollow Cone Rocket Injectors for Improved Swirling Flow Characteristics. (Member)	FRGS MOHE	RM40,000	2010	2012
5	Swirl Atomization Under Effervescing Mode for Rapid Combustion in Meso-Scale Rocket (Leader)	ERGS MOHE	RM 90,000	2011	2013
6	Hydrodynamic Fluid Behaviour Of Bio-lubricants In Pain Bearings (Leader)	ERGS MOHE	RM80,000	2012	2013
7	Tribological Characteristics of Different Lubricants Additives in Lead Free Bearing Materials (Member/Mentor)	ERGS MOHE	RM100,000	2013	2015
8	New Framework Model of Integrated Islamic Quality Manufacturing System (Leader)	FRGS MOHE	RM80,000	2013	2015
9	Two Coat Process of CO-NI-FE-AU Corrosion Protection (Member)	ERGS MOHE	RM 134,000	2013	2015
10	Nanosized Zinc Biphasic Calcim Phosphate (ZNBCP) As A High Strength Artificial Bone Implant Material (Member)	RAGS MOHE	RM 80,000	2014	2015
11	The Role of Carbon Biotemplate Density in Flexural Properties of Biomorphic Silicon Carbide (Member)	RAGS MOHE	RM 75,000	2014	2015

12	Heat Transfer Mechanisme On Coated Piston Crown For Spark Ignition Engine (Member)	RAGS MOHE	RM 65,000	2013	2015
13	Environmentally Friendly Synthesis Of Monodisperse Nickel (Ni)-Gold (Au) Bimetallic (Member)	RAGS MOHE	RM 65,000	2013	2015
UiTM LEVEL RESEARCH FUNDING					
	Research Project	Source	Total Funds	Begin Year	End Year
14	Tribological Investigation of Perodua MYVI 1300cc Gearbox Condition Through Automatic Transmission Fluid (ATF) Analysis. (Leader)	RMI/UiTM	RM13,000	2010	2011
15	Integrated Manufacturing Initiatives in Malaysia Automotive Industry. (Leader)	RMI/UiTM	RM12,000	2010	2011
16	The Effect of Air Intake System Configuration on the Flow Behaviour Through a Naturally Aspirated Internal Combustion Engine Intake Restrictor. (Member)	RMI/UiTM	RM15,000	2010	2011
17	Hyodynamic Fluid Behaviour of Bio-lubricants in Pain Bearings. (Leader)	RMI/UiTM	RM60,000	2013	2015
18	New Framework Model of Integrated Islamic Quality Manufacturing System (Leader)	RMI/UiTM	RM60,000	2013	2015

C. PUBLICATION

C.1 Books

These books were produced during my Deputy Deanship partly for Promoting Faculty of Mechanical Engineering, UiTM

1. Equipment and Service Charges, Faculty of Mechanical Engineering (UiTM, Shah Alam, 2010)
2. Directory of Equipment, Faculty of Mechanical Engineering (UiTM, Shah Alam, 2010)
3. Research Achievement, Faculty of Mechanical Engineering (UiTM, Shah Alam, 2011)
4. Directory of Expertise, Faculty of Mechanical Engineering (UiTM, Shah Alam, 2011)
5. Grant Profile, Faculty of Mechanical Engineering (UiTM, Shah Alam, 2011)

C.2 Thesis and Technical Report

- [1] **Salmiah Kasolang**, (2001) Implementation of TQM in the Malaysian Automotive Vendors, MSc Thesis, Universiti Putra Malaysia UPM, Malaysia
- [2] Reddyhoff, T., Dwyer-Joyce, R. S., and **Kasolang, S.** (2004), "Oil film measurement from phase of ultrasonic reflection." Mission of Tribology, Research 13, December 1, 2004, The Institution of Mechanical Engineers, Westminster, London.
- [3] **Kasolang, S.** (2006), "A study of bearing lubrication by ultrasound technique." UK Grad Programme Yorkshire & North East Hub, Poster Competition & Networking Event, May 3, Abstract 37.
- [4] **Salmiah Kasolang**, (2008) An Ultrasonic Investigation of Various Aspects of Hydrodynamic Lubrication in a Journal Bearing, PhD Thesis, University of Sheffield, UK

C.3 Refereed Journal Papers

[2005-2013]

- [1] **Kasolang, S.**, and Dwyer-Joyce, R.S. (2005), "Thickness measurement, turbulence, and bubbles in lubrication." Journal of Mechanical Engineering, Publications of the Universiti Teknologi MARA, 2(1), 63-78.
- [2] Reddyhoff, T., **Kasolang, S.**, Dwyer-Joyce, R. S., and Drinkwater, B. W. (2005), "The phase shift of an ultrasonic pulse at an oil layer and determination of film thickness." Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 219(6), 387-400. (Journal, ISI)*
- [3] **Kasolang, S.**, Dwyer-Joyce, R.S., (2008), "Observations of film thickness profile and cavitation around a journal bearing circumference", Tribology Transactions, 51(2), 231-245. (Journal, ISI)*
- [4] **Kasolang, S.**, Dwyer-Joyce, R.S., (2008), "Viscosity measurement in thin lubricant films using shear ultrasonic reflection" Proceedings of the I MECH E Part J Journal of Engineering Tribology, Vol. 222, No. 3., pp. 423-429. (Journal, ISI)*
- [5] **Kasolang, S.**, Ahmad, M.A. and Dwyer-Joyce, R.S. (2011) Measurement of circumferential viscosity profile in stationary journal bearing by shear ultrasonic reflection. Tribology International, Volume 44, Issue 11, October 2011, Pages 1264–1270 (Journal, ISI, Q1)*
- [6] **Kasolang, S.**, Ahmad, M. A., Ghazali, F.A., Azmi, A.M. (2011) "Preliminary Study of Dry Sliding Wear in Kenaf Epoxy and Carbon Epoxy", Applied Mechanics and Materials, Volume 52-54, Pages 464-469, (Journal, ISI)*
- [7] **Kasolang, S.**, Kalam, A., Ahamd, M.A. (2011) "Dry Sliding Wear of Oil Palm Empty Fruit Bunch (OPEFB) Epoxy Composite", Advanced Materials Research, Volume 308-310, 2011, Pages 1535-1539. (Journal, ISI)*
- [8] Salleh, NAM, **Kasolang, S.**, Jaffar, A (2011) Lean TQM Automotive Factory System, World Academy of Science, Engineering and Technology, Volume 79, pp 627-631
- [9] Salleh, NAM, **Kasolang, S.**, Jaffar, A. (2012), "Lean TQM Automotive Factory System", World Academy of Science, Engineering and Technology, Volume 79, July 2011, Pages 627-631
- [10] **Salmiah Kasolang**, Mohamad Ali Ahmad, Mimi Azlina Abu Bakar, Ahmad Hussein Abdul Hamid, (2012) Specific Wear Rate of Kenaf Epoxy Composite and Oil Palm Empty Fruit Bunch (OPEFB) Epoxy Composite in Dry Sliding, Jurnal Teknologi, 58 (Sains & Kej.) Keluaran Khas (2) , Ogos 2012: 85–88 (Journal, SCOPUS)

- [11] Noor Azlina Mohd. Salleh, **Salmiah Kasolang**, Hj Ahmed Jaafar, (2012), "Review study of developing an integrated TQM with LM framework model in Malaysian automotive industry", The TQM Journal, Vol. 24 Iss: 5 pp. 399 – 417 (Journal, SCOPUS)
- [12] **Salmiah Kasolang**, Mohamad Ali Ahmad, Rob-Dwyer Joyce, Che Faridah Mat Taib, (2012) Preliminary Study of Pressure Profile in Hydrodynamic Lubrication Journal Bearing, Procedia Engineering, Volume 41, Pages 1743-1749
- [13] Noor Azlina Mohd. Salleh, **Salmiah Kasolang**, Ahmed Jaffar, (2012) Green Lean Total Quality Information Management in Malaysian Automotive Companies, Procedia Engineering, Volume 41, Pages 1708-1713,
- [14] Noor Azlina Mohd. Salleh, **Salmiah Kasolang**, Ahmed Jaffar, (2012) Simulation of Integrated Total Quality Management (TQM) with Lean Manufacturing (LM) Practices in Forming Process Using Delmia Quest, Procedia Engineering, Volume 41, 2012, Pages 1702-1707
- [15] Abdul Rahim Mahamad Sahab, Nor Hayati Saad, **Salmiah Kasolang**, Juri Saedon, (2012) Impact of Plasma Spray Variables Parameters on Mechanical and Wear Behaviour of Plasma Sprayed Al₂O₃ 3%wt TiO₂ Coating in Abrasion and Erosion Application, Procedia Engineering, Volume 41, Pages 1689-1695
- [16] A. Hussein, M. Hafiz, H. Rashid, A. Halim, W. Wisnoe, **S. Kasolang** (2012) "Characteristics of Hollow Cone Swirl Spray at Various Nozzle Orifice Diameters", Jurnal Teknologi, Vol. 24 Iss: 5 pp. 399 - 417 (Journal, SCOPUS)
- [17] Diyar I. Ahmed, M.Z. Yusoff, Al-Falahi Amir, **S. Kasolang**, (2012) High Speed Flow Characteristics in Gun Tunnel, Procedia Engineering, Volume 41, 2012, Pages 1787-1793
- [18] Aidah Jumahat, Costas Soutis, Shahrul Azam Abdullah, **Salmiah Kasolang**, (2012) Tensile Properties of Nanosilica/Epoxy Nanocomposites, Procedia Engineering, Volume 41, Pages 1634-1640, ISSN 1877-7058
- [19] C. Bambang Dwi Kuncoro, Armansyah, Nor Hayati Saad, Ahmed Jaffar, Cheng Yee Low, **Salmiah Kasolang**, (2012) Wireless e-Nose Sensor Node: State of the Art, Procedia Engineering, Volume 41, Pages 1405-1411
- [20] Mohamad Ali Ahmad, **Salmiah Kasolang**, Rob Dwyer-Joyce, Mimi Azlina Abu Bakar (2013) The effects of Oil Groove Position on Torque and Frictional Force in Hydrodynamic Journal Bearing, Applied Mechanics and Materials, Vol. 393 (2013) pp 907-912; ISSN:16609336; Index: SCOPUS, H Index 7, Q4
- [21] Mohamad Ali Ahmad, **Salmiah Kasolang**, Rob Dwyer-Joyce and Nik Rosli Abdullah (2013) The Effect of Oil Supply Pressure on the Circumferential Pressure Profile in Hydrodynamic Journal Bearing, Applied Mechanics and Materials, Vol. 315 pp 809-814; ISSN:16609336; Index: SCOPUS, H Index 7, Q4,
- [22] **S. Kasolang**, Diyar I. Ahmed, R. S. Dwyer-Joyce, B. F. Yousif (2013) Performance Analysis of Journal Bearings Using Ultrasonic Reflection, Tribology International, Vol 64, pp. 78-84; ISSN: 0301-679x; Index: SCOPUS; 1.802 Impact Factor; Q1
- [23] Mohamad Ali Ahmad, **Salmiah Kasolang** and Rob Dwyer-Joyce (2013) Experimental Study of Oil Supply Pressure Effects on Bearing Friction in Hydrodynamic Lubrication, Applied Mechanics and Materials, Vol. 315 (2013) pp 977-981; ISSN:16609336; Index: SCOPUS, H Index 7, Q4
- [24] Diyar I. Ahmed, **S. Kasolang**, Balasem Salem S., Basim A. Khidhir, B.F. Yousif (2013) Prediction of Maximum Oil-Film Pressure in Journal Bearing using Fuzzy Logic and Particle Swarm Optimization Approaches, Australian Journal of Basic and Applied Science, 7(4): 505-514; Indexed: ISI/Thomson Reuters; H Index 7, Q3
- [25] Diyar I. Ahmed, **S. Kasolang**, Balasem Salem S., Basim A. Khidhir, B.F. Yousif, (2013) Model-Based Design of Experiments for Oil-Film Temperature in Hydrodynamic Journal Bearing, Australian Journal of Basic and Applied Sciences, 7(4): 505-514: ISSN 1991-8178; Indexed: ISI/Thomson Reuters; H Index 7, Q3s; H Index 7, Q3

- [26] Diyar I. Ahmed, **S. Kasolang**, Basim A. Khidhir, N.R. Abdullah (2013) Application of Response Surface Methodology to Predict Oil-Film Friction in Journal Bearing, *Applied Mechanics and Materials*, Vol. 393 (2013) pp 881-887; ISSN:16609336; Index: SCOPUS, H Index 7, Q4
- [27] Diyar I. Ahmed, **S. Kasolang**, Basim A. Khidhir, C.F. Mat Taib (2013) Application of fuzzy logic approach to predict maximum oil-film pressure in journal bearing, *Applied Mechanics and Materials*, Vol. 393 (2013) pp 881-887; ISSN:16609336; Index: SCOPUS, H Index 7, Q4
- [28] Diyar I. Ahmed, **S. Kasolang**, Basim A. Khidhir, B.F. Yousif (2013) Analysis of Factors Interaction for Maximum Oil-Film Pressure in Hydrodynamic Journal Bearing, *Caspian Journal of Applied Sciences Research*, 2(6), pp 60 - 73; ISSN 2251-9114; Indexed: ISI/Thomson Reuters
- [29] Noor Azlina Mohd. Salleh, **Salmiah Kasolang**, Hj Ahmed Jaafar, Azianti Ismail (2013) Green Lean TQM Suppliers, Organization and Customers Management, *Applied Mechanics and Materials*, Vol. 393 (2013) pp 29-35; ISSN:16609336; Index: SCOPUS, H Index 7, Q4
- [30] Norhanifah Abdul Rahman, **Salmiah Kasolang**, Mohamad Ali Ahmad, and Mimi Azlina Abu Bakar (2013) Analysis of Transmission Fluid in Manual Diesel Engine by Ferrographic Technique, *Applied Mechanics and Materials*, Vol. 393 (2013) pp 925-930; ISSN:16609336; Index: SCOPUS, H Index 7, Q4
- [31] Syazuan Abdul Latip, **Salmiah Kasolang**, Siti Khadijah Alias, Amirul Abd Rashid, Abdul Hakim Abdullah, Syarifah Yunus (2013) Wear Particle Characterization and Severity Evaluation of Perodua Myvi 1.3L Automatic Transmission (AT) Fluid, *Applied Mechanics and Materials*, Vol. 393 (2013) pp 925-930; ISSN:16609336; Index: SCOPUS, H Index 7, Q4
- [32] C.F. Mat Taib, Abdul Aziz Jaafar, **S. Kasolang** (2013) Numerical Study of Winglet Cant Angle Effect on Wing Performance at Low Reynolds Number, *Applied Mechanics and Materials*, Vol. 393 (2013) pp 366-371; ISSN:16609336; Index: SCOPUS, H Index 7, Q4
- [33] Mimi Azlina Abu Bakar, Sahrim Ahmad, Wahyu Kuntjoro, **Salmiah Kasolang** (2013) Effect of Carbon Fibre Ratio to the Impact Properties Of Hybrid Kenaf/Carbon Fibre Reinforced Epoxy Composites, *Applied Mechanics and Materials*, Vol. 393 pp 136-139; ISSN:16609336; Index: SCOPUS, H Index 7, Q4
- [34] N.R. Nik Roselina, Koay Mei Hyie, C.M. Mardziah, **S. Kasolang**, S.K. Alias, Z. Salleh (2013) Synthesis Route Towards Fine and Monodisperse Ni Nanoparticles via Hot-Injection Approach, *Applied Mechanics and Materials*, Vol. 393 (2013) pp 146-151; ISSN:16609336; Index: SCOPUS, H Index 7, Q4

C.4 Proceeding Papers (International)

[2005-2013]

- [1] Dwyer-Joyce, R. S., Reddyhoff, T., **Kasolang, S.**, and Drinkwater, B. (2005), "Ultrasonic phase and amplitude and the measurement of oil film thickness." 2005 World Tribology Congress III, Sep 12-16 2005, Washington, D.C., United States, 515-516 BN - 0791842010.
- [2] Dwyer-Joyce, R. S., and **Kasolang, S.** (2006), "Thickness measurements around the circumference of a journal bearing." STLE/ASME International Joint Tribology Conference, IJTC 2006, Oct 23-25 2006, San Antonio, TX, United States, 2.
- [3] **Kasolang, S.**, and Dwyer-Joyce, R.S., (2007), "Viscosity measurement in bulk and thin Fluid." 34th Leeds-Lyon Symposium on Tribology, September 4-7, INSA de Lyon, France.
- [4] **Kasolang, S.**, and Dwyer-Joyce, R.S., (2009), "Viscosity Measurement in Journal Bearing using Shear Ultrasonic Reflection." World Tribology Congress (WTC) IV 2009, 6 – 11 Sept 2009 KYOTO JAPAN: ISBN 978-4-9900139-9-8
- [5] **Kasolang, S.**, Dwyer-Joyce, R.S., and Ahmad, M.A. (2010), "Optimization of a Purpose Built Ultrasonic Transducer." International Symposium on Robotics and Intelligent Sensors (IRIS2010), 6 – 12 March 2010 NAGOYA JAPAN: ISBN: 978-4-9905048-0-9

- [6] **Kasolang, S.**, Dwyer-Joyce, R.S., and Ahmad, M.A. (2010), "Viscosity Profile Measurement in Journal Bearing by Shear Ultrasonic Reflection." International Conference on Mechanical and Aerospace Engineering (CMAE2010), 16-18 April 2010 Chengdu, China ISBN:978-1-4244-6350-3 Indexed by IEEE Xplore.
- [7] Salleh, N.A.M., **Kasolang, S.**, Jaafar, H.A. (2010), "Integrated Total Quality Management (TQM) with Lean Manufacturing (LM) Practices in Malaysian Automotive Industry", Proceedings of the International Conference on Advances in Mechanical Engineering ICAME 2010 2 - 5 December 2010, Shah Alam Convention Centre, Selangor, Malaysia, pp 185 – 190.
- [8] **Kasolang, S.**, Kalam, A., Ahmad, M.A., Rahman, N.A., and Suhadah, W.N. (2011) "Abrasive Wear: The Effects of Fibres Size on Oil Palm Empty Fruit Bunch Polyester Composite", 4TH INTERNATIONAL MEETING OF ADVANCES IN THERMOFLUIDS (IMAT 2011), PT 1 AND 2 **Book Series: AIP Conference Proceedings Volume: 1440 Pages: 1169-1174**
- [9] Azlin, M.A., Mat Taib, C.F., **Kasolang, S.** Muhammad, F.H. (2011) Proceedings of the World Congress on Engineering 2011, WCE 2011 Volume 1, 2011, Pages 87-91
- [10] Diyar I. Ahmed, M. Z. Yusoff, Al-Falahi Amir, and **S. Kasolang** (2011) "High Speed Flow Characteristics in Gun Tunnel", 4TH INTERNATIONAL MEETING OF ADVANCES IN THERMOFLUIDS (IMAT 2011), PT 1 AND 2 **Book Series: AIP Conference Proceedings Volume: 1440 Pages: 330-340**
- [11] S. Kasolang, A. Kalam, M. A. Ahmad, N. A. Rahman, and W. N. Suhadah, (2012) Abrasive wear: The effects of fibres size on oil palm empty fruit bunch polyester composite, AIP Conf. Proc. 1440, 1169
- [12] Noor Azlina Mohd. Salleh, Salmiah Kasolang, Ahmed Jaffar, (2012) Green Lean TQM Human Resource Management Practices in Malaysian Automotive Companies, Proceedings of ICAMAME Switzerland, World Academy of Science, Engineering and Technology, 70, pp340-344, 2012.
- [13] Diyar I. Ahmed, M. Z. Yusoff, Al-Falahi Amir, and S. Kasolang, (2012) High speed flow characteristics in gun tunnel, AIP Conf. Proc. 1440, 330
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B. CONFERENCE AND SEMINAR

D.1 International Conference Involvement



No.	Conference Name	Role	Venue	Date
1	International Conference on Advances in Mechanical Engineering ICAME (2009)	Author & Presenter	Shah Alam, Selangor, Malaysia	24-25 Jun 2009
2	<i>34th Leeds-Lyon Symposium on Tribology, September 4-7, INSA de Lyon, France.</i>	Author & Presenter	INSA de Lyon, France	4-7 Sept 2007
3	<i>The 4th World Tribology Congress (WTC) IV 2009, KYOTO JAPAN:</i>	Author & Presenter	Kyoto, Japan	6 –11 Sept 2009
4	<i>International Conference on Computer Engineering and Technology (IC CET 2010), on Mechanical and Aerospace Engineering (CMAE2010),</i>	Author & Presenter	Chengdu, China	16-18 April 2010
5	Proceedings of the International Conference on Advances in Mechanical Engineering ICAME (2010)	Author & Presenter	Shah Alam, Selangor, Malaysia	2 - 5 Dec 2010
6	International Symposium on Robotics and Intelligent Sensors (IRIS2010)	Author & Presenter	Nagoya, Japan	6-12 Mar 2010
7	Academic Conference	Author & Presenter	UiTM, Shah Alam, Malaysia	April 2011
8	German-Malaysian Workshop	Author & Presenter	Hannover, Germany	27-29 Jun 2011
9	Regional Tribology Conference (RTC) 2011	Author & Presenter	Langkawi, Kedah, Malaysia	22-24 Nov 2011
10	International Conference on Aerospace, Mechanical, Automotive, and Material Engineering ICAMAME , World Academy of Science, Engineering and Technology	Author & Presenter	Lucern, Switzerland	7-8 May 2012
11	International Symposium on Robotics and Intelligent Sensors (IRIS2012)	Author & Presenter	Kuching, Sarawak, Malaysia	4 – 6 Sept 2012
12	Proceedings of the International Conference on Advances in Mechanical Engineering ICAME2013	Author & Poster	Melaka, Malaysia	28-29 Aug 2013
13	Malaysian International Tribology Conference MITC2013	Welcoming speech	Kota Kinabalu	18-20 Nov 2013

D.2 Conference Organizer/ Committee Members

No.	Conference Name	Role/ Level	Venue	Date
1	International Conference on Advances in Mechanical Engineering ICAME2009	Event Manager	Shah Alam, Selangor, Malaysia	24-25 Jun 2009
2	International Conference on Advances in Mechanical Engineering ICAME2010	Co-Chairman	Shah Alam, Selangor, Malaysia	2 - 5 Dec 2010
3	International Symposium on Robotics and Intelligent Sensors (IRIS2010)	Publicity Team for Malaysia	Nagoya, Japan	6-12 Mar 2010
4	Regional Tribology Conference (RTC)	Head of Committee, Emcee	Langkawi, Kedah, Malaysia	22-24 Nov 2011
5	International Symposium on Robotics and Intelligent Sensors (IRIS2012)	Head of Keynote chairman	Kuching, Sarawak, Malaysia	4 – 6 Sept 2012
6	International Conference on Advances in Mechanical Engineering ICAME2013	Co-Chairman	Melaka, Malaysia	28-29 Aug 2013
7	Malaysian International Tribology Conference MITC 2013	Chairman	Kota Kinabalu	18-20 Nov 2013

C. CONSULTANCY/ INDUSTRY-COMMUNITY LINKAGE

Some key MoUs/MoAs facilitated by Deputy Dean for Research and Industry-Community-Alumni Linkage:

No.	Industry/Community	Activity	Year
1.	<p>Daegu University, Korea (MoA)</p> <p>Visited Daegu University in 2009 (Assoc. Prof Dr Salmiah Kasolang)</p> <p>Date of MoU signing: 1. 3 Sept 2008 (3 tahun) 2. 28 August 2012 (3 tahun)</p> 	<p>In 2009, a total of 6 students were sent to Korea through DAEGU for their industrial training .</p> <p>In 2011, a total of 12 students were also sent to Korea for their industrial training. Since 2009, more than 20 students have been sent to Korea.</p> <p>Currently, there are two staff pursuing their PhD study in Daegu University.</p> <p>The latest collaborative project is on the Design Competition participated by UiTM students and students from Korea. This project is championed by both staff from Faculty of Mechanical Engineering UiTM and staff from Daegu University</p>	2008 - present
2.	<p>Nagoya University, Japan (MoU)</p> <p>Date of MoU signing: 8 Mac 2010 (5 tahun)</p> 	<p>Two students went to Nagoya University to do industrial training under the mobility fund. The program started Seramai 2 orang pelajar telah menjalani latihan yang bermula pada 1 Mac 2010 sehingga 30 Jun 2010.</p> <p>Coorganized two conferences: IRIS 2010 in Japan and IRIS2012 in Kuching Sarawak Malaysia</p> <p>Staff went to Nagoya University for PhDs.</p>	2010 - present

3.	<p>University of Herfordshire Higher Education Corporation (MoA)</p> <p>Date of MoU signing: 23 Disember 2010</p> 	<p>Trained staff and students in preparation to set up <i>Formula Student Team</i> for the Faculty of Mechanical Engineering</p>	2010
4.	<p>Malaysian Automotive Institute (MAI) (MoU)</p> <p>Date of MoU signing: 12 Julai 2010</p> 	<p>Attachement of students for grooming in softskills and technical knowledge development.</p>	2010
5.	<p>PROTON Sdn Bhd (MoU)</p> <p>Date of MoU signing: 13 Jan 2010 (3 Tahun)</p> 	<p>Collaboration and support in research, teaching and learning, organizing conferences, students and staff development.</p>	2010
6.	<p>GSI SLV – CDC, German</p> <p>Date of MoU signing: 7 Disember 2011</p>  	<p>To arrange for knowledge transfer in the area of welding and welding certification program. This is to improve students employability as well as students and staff competency</p>	2011
7.	<p>MIMOS (COLLABORATIVE RESEARCH AND DEVELOPMENT AGREEMENT)</p> <p>Date of MoU signing: 15 Oktober 2012</p>	<p>Students and staff attachment has started in 2012. Several industrial projects have also embarked and currently in progress.</p> <p>Knowledge transfer and sharing of resources are successful with output of publications and patent (in progress)</p>	2012

			
8.	<p>RAFALE INTERNATIONAL</p> <p>(Dassault Aviation, Thales Systemes Aeroportes (TSA) & Snecma)</p> <p>Date of MoU signing: 25 JULAI 2012</p> 	<p>Collaboration and support for knowledge and skill development; donated RM10,000 to International Conference on Advances in Mechanical Engineering 2013; Organized a students competition.</p>	2012

D. SPECIAL INVITATION/ APPOINTMENTS/ EXPERTISE

F.1 International Level

1. Editorial Board of of Mechanical Engineering, Universiti Teknologi MARA, Malaysia (Indexed in SCOPUS)
2. Journal Reviewer, Journal of Mechanical Engineering, Universiti Teknologi MARA, Malaysia.
3. Journal Reviewer, Journal of Mechanical Engineering Science, Part C, Institution of Mechanical Engineerings, UK
4. Journal Reviewer, Journal of Engineering Tribology, Part J, Institution of Mechanical Engineerings, UK
5. Journal Reviewer, the Total Quality Management Journal (TQM), EMERALD publishing group
6. Paper Reviewer, International Conference on Advances in Mechanical Engineering ICAME2009, 24-25 Jun 2009, Shah Alam, Selangor, Malaysia
7. Paper Reviewer, International Conference on Advances in Mechanical Engineering ICAME2010, 2 - 5 Dec 2010, 2 - 5 Dec 2010
8. Paper Reviewer; Regional Tribology Conference (RTC), 22-24 Nov 2011, Langkawi, Kedah, Malaysia
9. Paper Reviewer; International Symposium on Robotics and Intelligent Sensors, IRIS2012, 4-6 September 2012, Kuching, Sarawak Malaysia.
10. Paper Reviewer; International Conference on Advances in Mechanical Engineering ICAME2013, 28-29 Aug 2013, Melaka, Malaysia
11. Paper Reviewer; Malaysian International Tribology Conference MITC 2013, 18-20 Nov 2013
12. Panel Judge, International exhibition of invention, innovation, and technology, 9 - 11, May 2013, Malaysia

F.2 National Level

1. Editorial Panel, Proton Quaterly Engineering Technical QETS, 2011 – present, PROTON
2. Panel Judge, Invention, Innovation, and Design Expo (IIDEx 2013), 15 -17, March 2013, UiTM, Malaysia
3. Secretary II of Malaysian Tribology Society, MYTRIBOS, Nov 2011- Oct 2013
4. Vice President of Malaysian Tribology Society, MYTRIBOS, Nov 2013 – present

F.3 University/ Faculty Level

1. Panel of Interviewers, Recruitement of lecturers, 2009- present, FKM, UiTM
2. Panel of Interviewers, Staff scholarship, 2009- present, FKM, UiTM
3. Panel of Interviewers, Young Lecturer Scheme, 2009- present, FKM, UiTM
4. Mentor, Supervisor, and Evaluator for young staff, 2009 – present, FKM, UiTM
5. Chairman, Masters Viva, IPSIS, 24 Mar 2009, UiTM
6. Panel of Assessors, Defence of Proposal (Masters), Institute of Graduate Studies, 26 Nov 2010
7. Panel Judge, Materials Speech Competition, 20 March 2013, FKM, UiTM
8. Panel of Evaluators, Fundmental Research Grant Scheme FRGS, 2011 – present
9. Panel of Evaluators, Exploratory Research Grant Scheme ERGS, 2011 – present
10. Panel of Evaluators, Prototype Research Grant Scheme PRGS, 2011 – present
11. Panel of Evaluators, Research Acculturation Grant Scheme RAGS, 2013 – present
12. Panel for Dissertation Presentation, Engineering Management EM774, 2012-2013 FKM UiTM
13. Panel of Final Year Presentations, Students Final Year Project and related courses KJM660/MEC602/MEM602, 2009 – present, FKM, UiTM
14. Panel of PhD Thesis Previsa, Faculty of Applied Science, 13 Sept 2012, UiTM
15. Panel of Examination Question Vetting, Fluid Mechanics I MEC441, 7 Feb 2011
16. Self-Review Committee (Area 5, Academic Staff); 01 Jan 2011 - 30 Mac 2013, FKM, UiTM Shah Alam
17. Head/Coordinator of Anugerah Kualiti Naib Canselor (AKNC), 2009 – present, FKM UiTM Shah Alam
18. Head/Coordinator of Strategic Planning, 2009 – Present, FKM UiTM Shah Alam
19. Head of Internal Quality Auditor, ISO9000 Certification, 2009 FKM UiTM Shah Alam
20. Member of Quality Auditors/Auditees, Quality Auditor Committees, 2009 – present, FKM UiTM
21. Member of Faculty Executive Board, 2009 – present, FKM UiTM Shah Alam
22. Member of Faculty Academic Board, 2009 - present , FKM, UiTM Shah Alam
23. Member, Board of Postgraduate Studies; 2009 - present , FKM, UiTM Shah Alam
24. Member of Curriculum Review Board; 2009 - present , FKM, UiTM Shah Alam
25. Panel Assessor (Internal Speak Out for Engineering, SOFE 2011); Nov-Dec 2011, IMechE-UiTM Student Chapter
26. Chairman of Industrial Outreach Program, Marketing and Promoting Faculty of Mechanical Engineering and 7 Center of Excellence to industrial community, 2011, FKM, UiTM Shah Alam
27. Chairman of Pre-Love Items Sale during ICAN MONTH, 2012, UiTM
28. Chairman of Employability Awareness Campaign, 2013, FKM, UiTM Shah Alam

29. Chairman of Research, Publication, and Consultation Unit, 2009 – present, FKM, UiTM Shah Alam
30. Chairman of Industry- Community-Alumni Linkage Unit, 2009 – present, FKM, UiTM Shah Alam
31. Chairman of Entrepreneur Unit, 2011 – present, FKM, UiTM Shah Alam
32. Chairman of Marketing Arm Unit, 2010 – present, FKM, UiTM Shah Alam
33. Chairman of Institution of Mechanical Engineering and Technology Advancement IMETA, 2010 – present, FKM, UiTM Shah Alam
34. Chairman of Invention, Innovation, Design IID FKM, UiTM Shah Alam

E. INOVATION/ INVENTION/ DESIGN

1. Head of a task force for development of Dean's Gallery, Faculty of Mechanical Engineering; multi-function space for staff, students, and visitors; showcase of research, teaching and learning products, industry-academia-community linkage,
2. Presentation Slide, Vice Chancellor Quality Award (Anugerah Kualiti Naib Canselor), 2012; Faculty of Mechanical Engineering, UiTM Shah Alam (UiTM champion (overall faculty champion))
3. Invention, Innovation & Design (IID) Silver Medal, IIDex 2013: " Nanosilica Filled Fibre Composites", Universiti Teknologi MARA Shah Alam, Malaysia
4. Presentation Slide, Vice Chancellor Quality Award (Anugerah Kualiti Naib Canselor), 2011; Faculty of Mechanical Engineering, UiTM Shah Alam (UiTM champion (overall faculty champion))
5. Presentation Slide, Vice Chancellor Quality Award (Anugerah Kualiti Naib Canselor), 2010; Faculty of Mechanical Engineering, UiTM Shah Alam (overall UiTM champion)
6. Coordination and Continuous Improvement of Student Assessment Monitoring System (Test Specification Table or Jadual Spesifikasi Ujian, JSU); 1 Aug 2011-continuous improvement, Faculty of Mechanical Engineering, UiTM Shah Alam
7. Coordination and Development of Centre of Excellence for Tribology (already in collaboration with other Universities through MALAYSIAN TRIBOLOGY SOCIETY MYTRIBOS); 2011-completion; Faculty of Mechanical Engineering, UiTM Shah Alam
8. Pioneered the establishment of ISO 9001:2000 Documents (the first Document Officer), Faculty of Mechanical Engineering/ UiTM Shah Alam; 2003 (Quality Manual, Operation Procedures, Management Procedures, Objectives Quality: Plan-Do-Check-Act, 6 Files of Laboratory Record, Laboratory Log Book, Support Documents, In-Out Document Control Log Book, Course Files)

F. COMMUNITY INVOLVEMENT (SOCIETY/ UNIVERSITY/ STUDENT)

H.1 National/ International Contributions

1. Chairman, Students Mobility Abroad to Korea, Germany, Japan, USA, and Brunei
2. Secretary II of Malaysian Tribology Society, MYTRIBOS, Nov 2011- Oct 2013
3. Vice President of Malaysian Tribology Society, MYTRIBOS, Nov 2013 – present
4. Establishment of Research Collaboration with Sheffield University through Prof Rob Dwyer Joyce.
5. Establishment of Linkage with Malaysian-Japan Institute of Technology, MJIT through Prof Fukuda.
6. Establishment of Linkage with Green Tribology and Engine Performance Research Group G-TriboE, Universiti Teknikal Malaysia Melaka through Dr Mohd Fadzli Abdullah

7. Establishment of Linkage with Advanced Materials Processing and Integrity Group AMPI through Assoc. Prof. Dr Mariyam Jameelah Ghazali
8. Establishment of Linkage with Tribology Group of University Malaya through Prof Dr Masjuki Hassan
9. Establishment Research Collaboration with MIMOS (2011-present), Steering Committee
10. IMechE (Institution of Mechanical Engineer)- UiTM Student Chapter Advisor/Steering Committee, (2011-present)
11. Technical Committee Members, German-Malaysian Workshop "Advances in Mechatronics and Engineering Technology" (GMW 26-29 June 2012)
12. Advisor of Students Group, INFINITY in FIT2DRIVE Campaign by Malaysian Automotive Institute MAI, Proton, and MIROS.
13. Master Trainer for Conceive-Design-Implement-Operate CDIO, 2010 - present

H.2 University/ Faculty Contributions/Community

1. Deputy Dean for Research, Industry-Community-Alumni Networking, Employability and Entrepreneur, 2009 - present
2. Lab Manager for Tribology Lab, Faculty of Mechanical Engineering, FKM UiTM Shah Alam, 2009-2010
3. Founder of Tribology Group and Center for Tribology CENTRIB, FKM UiTM Shah Alam (2009-present)
4. Key Member in Stakeholders Feedback Committee, 1 Jan 2012 - 31 Dec 2012, FKM UiTM Shah Alam.
5. Member of Excellence Entities UiTM, Appointment by TNC Research and Innovation, 1 November 2012 - 31 Oktober 2015
6. Key Panel of UiTM Technical Committee for FKM, 1 November 2012 - 31 Oktober 2015
7. Key Member of Income Generation and Cost Saving Committee, 1 Mac 2013 - 31 Dec 2013
8. Steering committee for *AJK Pasukan Pelaksa Projek Agenda Kritikal Pelan Strategik Pengajain Tinggi Negara Akademia-Industri*, ICAN, 16 April 2012 - 31 Dec 2014
9. Member of Convocation Text Committee, 20 Mei - 30 Mei 2010, UiTM Shah Alam
10. Key Members for *Akhir Anugerah Kualiti Naib Cansellor 2010 AKNC final presentation*
11. *Key Panel for 'Kesepakaran'* Committee, 1 Jan 2013 - 31 Dec 2014, FKM UiTM Shah Alam,
12. *Key Member in Academic program accreditation, 1 Januari 2013 - 31 Disember 2013*, FKM UiTM Shah Alam,
13. Co-Founder and Advisor for FKM Fun Club, 1 Januari 2013 - 31 Disember 2013, FKM UiTM Shah Alam.
14. Co-Founder and Advisor for Alumni Club of Faculty of Mechanical Engineering, 2013
15. Chairman, Invention, Innovation, and Design IID Unit, FKM UiTM Shah Alam, 2009 - present
16. Chairman, Students Employability Unit, FKM UiTM Shah Alam. 2011-2012, 1 Januari 2013 - 31 Disember 2013,
17. Member of Task Force for the establishment of Teaching Factory, FKM UiTM Shah Alam, 1 Januari 2013 - 31 Disember 2013
18. Key panel for Human Resource Development, FKM UiTM Shah Alam, 1 Januari 2013 - 31 Disember 2013.
19. Course Coordinator for Lubrication of Machine Elements MEC642, FKM UiTM Shah Alam, 2008 - present
20. Acting Dean for many times since 2009 to represent Dean when he is away, FKM UiTM Shah Alam.
21. Key Member in Technical Equipment Assessment Committee, 1 Jan 2013 - 31 Dec 2013, FKM UiTM Shah Alam.
22. Key Member in Faculty Academic Committee, 1 Jan 2013 - 31 Dec 2013, FKM UiTM Shah Alam.

23. Key Member in Curriculum Committee, 1 Jan 2013 - 31 Dec 2013, FKM UiTM Shah Alam.
24. Key Panel in Trust Fund Committee, 1 Jan 2013 - 31 Dec 2013, FKM UiTM Shah Alam.
25. Key Panel in 'PERASA' Committee, 1 Jan 2013 - 31 Dec 2013, FKM UiTM Shah Alam.
26. Chairman of FKM Books Unit, 2009 – present, 6 books have been produced.
27. Academic Advisor, FKM UiTM S.Alam (1997-2003; 2008)
28. Chairman of Research, Publication & Consultancy Unit, FKM (2009 - present)
29. Document Officer, ISO 9001:2000, FKM, UiTM (2002 - 2003)
30. Member of Working Team, ISO Audit 9001:2000 UiTM (2003; 2008 - 2013)
31. Member of Internal Audit System Committee, FKM, UiTM (2008 - 2011)
32. Resident Staff, Kolej Akasia, UiTM Section 18, S.Alam (1995 – 2000)
33. Developed a new elective course, Lubrication of Machine Elements MEC642, 2008
34. Developed a new masters course equivalent of Lubrication of Machine Elements MEC642, extended
35. Panel Evaluator, MSc Programme, Research Progress (2003-2006)
36. Panel Evaluator, MSc Programme, Defence of Research proposal (2005-2006, 2010-present)
37. Panel Evaluator, PhD Programme, Defence of Research proposal (2006, 2010-present)
38. Student Development Officer; FKM UiTM Shah Alam (2005-2006)
39. Badminton Player, Internal Games, FKM (2009 - present)
40. Speaker for FKM on Research Grant Application and How write journal papers , UiTM (2005 – 2006)
41. Member of Panel Interviewer Team, Young Lecturer Scheme, FKM, UiTM (2005)
42. Course Coordinator, Lubrication of Machine Elements, FKM, UiTM (2009 - present)
43. Second Examiner, Final Year Project Students Report, FKM, UiTM (2009-present)
44. Panel Evaluator, Final Year Project Presentation, FKM, UiTM (2009-present)
45. Head of Quality Assurance Unit, FKM UiTM Shah Alam (2008)
46. Event manager for International Conference on Advances in Mechanical Engineering (ICAME 2009)
47. Vice-Chairman for International Conference on Advances in Mechanical Engineering (ICAME 2010)
48. Vice-Chairman for International Conference on Advances in Mechanical Engineering (ICAME 2013)
49. Member, Self Review Report (Quality), Area 5: Academic Staff, FKM, UiTM (2009-present)
50. Steering committee IMechE-UiTM Student Chapter Mechanical (2011-2012)
51. Member of Outcome Based Education (OBE) Committee, FKM UiTM Shah Alam (2009-present)
52. Chairman of Institute of Mechanical Engineering and Technology Advancement (IMETA) FKM UiTM Shah Alam (2012-present)
53. Members of Accreditation Committee , FKM UiTM Shah Alam (2011-present)
54. Member of Faculty Academic Board , FKM UiTM Shah Alam (2009-present)
55. Member of Postgraduate Academic Board , FKM UiTM Shah Alam (2009-present)
56. Committee member (Selection of Pre-Loved Sale Item)– Faculty of Mechanical Engineering and Industrial Linkage, Community and Alumni UiTM Shah Alam (2012)
57. Chairman of Students certification programmes, Faculty of Mechanical Engineering, 2011-present
58. Chairman of Research Ethics Committee, Faculty of Mechanical Engineering, Jan 2013 – present
59. Key member for Students Formula Training by Herfordshire under ARTeC Programme, 2009
60. Steering Committee of UiTM Entrepreneurship Carnival (Student Society Club, Faculty of Mechanical Student Secretariat, and Student Entrepreneurship Club), Eand ngeineering techneurpernuer day, 2012 – present
61. Speakers for CDIO Cascading Program to other Institutions, 2013.
62. Member of Biro Wanita, Penduduk NusaRhu Puncak Perdana, 2012.

G. AWARDS/ RECOGNITION AND APPRECIATION

I.1 Personal Awards/ Group Achievement

1. Member/Mentor, Geran ERGS: 'Triological Characteristics of Different Lubricant Additives in Lead Free Bearing Materials', RM100,000, 2013-2015
2. Member/Mentor, Geran ERGS: 'Two Coat Process of Co- Ni-Fe-Au Corrosion Protection', RM134,000, 2013-2015
3. Member/Mentor, Geran ERGS: "Transferring to Asia Green Recycle in Formulating and Testing Products of Recycled Tire: A Generation of Green Factory and Income', RM138,580, 2013-2015
4. Leader, ERGS Grant: 'Hydrodynamic Fluid Behaviour Of Bio-lubricants In Plain Bearings', RM80,000, 2012-2014
5. Silver Award iideX 2013, Nanosilica Filled Fibre Composites, Research Innovation Business Unit, UiTM, 2013
6. Member/Mentor. Geran Excellent Fund:"The Effect of Air Intake System Configuration on The Flow Behaviour Through A Naturally Aspirated Internal Combustion Engine Intake Restrictor', RM15,000, 2010-2011
7. Staff Excellence Award/Sijil Perkhidmatan Cemerlang, RM1,000 by UiTM, 2011.
8. Leader, FRGS Grant: New Configuration of Meso-Scale Hollow Cone Rocket Injectors for Improved Swirling Flow Characteristics', RM40,000, 2010-2013
9. Leader, FRGS Grant: 'Performance Characteristics of Lubricant and Wear Characteristics in an Automatic Transmission (AT) System', RM48,000, 2010-2012
10. Leader, Excellence Fund: 'New Framework Model of Intergrated Total Quality Management (TQM) and Lean Manufacturing (LM) for Malaysian Automotive Vendors', RM 12,000, 2010-2011
11. Leader, Excellence Fund:" Tribological Investigation on Perodua MYVI 1300cc Gearbox Condition Through Automatic Transmission Fluid ATF Analysis", RM 13,000, 2010-2011
12. Leader, Science Fund:"A Non-Destructive Technique to Obtain The Tribological Aspects of Journal Bearing using Ultrasonic Reflection Measurement", RM136,000, 2009-2013
13. Overall Champion of the Vice Chancellor Quality Award, Faculty of Mechanical Engineering, UiTM, RM80,000 (2008 – present)
14. Scholarship to pursue Bachelor of Science in University of Wisconsin-Madison, 1987 - 1992
15. Scholarship to pursue Masters of Science in University Putra Malaysia, 2001.
16. Scholarship to pursue PhD in University of Sheffield, United Kingdom, 2008.
17. Finalist for FIT2DRIVE Campaign by Malaysian Automotive Institute MAI, Proton, and MIROS.
18. Special award in Deans Quality Award for *Anugerah Staf Penampilan Kemas, 2012*
19. Special award in Deans Quality Award for *Anugerah Jawatankuasa Terbaik/Aktif, 2012*
20. Special award in Deans Quality Award for *Tempat Pertama Anugerah Penerbitan, 2012*

I.2 Appreciation

1. Certificate of Appreciation (Participant): Participant Konvensyen Amalan Pengurusan Terbaik, 2009
2. Letter of Appreciation (Participant): Judge - Conference on Scientific and Social Research, 2009
3. Letter of Appreciation (Participant): Chairman, Program *Pelaksanaan Perancangan Strategik FKM 2001 - 2010*
4. Letter of Appreciation: Co-Chairman ICAME 2009
5. Letter of Appreciation (Participant): Internal Auditor, 2010
6. Letter of Appreciation: Internal PERASA Committee, 2010
7. Letter of Appreciation: Vice Chairman of *Jawatankuasa Perhubungan Industri, 2010*
8. Letter of Appreciation: Overall Champion of the ViceChancellor Quality Award, 2010
9. Letter of Appreciation: Panel of Assessor for FRGS, 2010
10. Letter of Appreciation: Panel for Human Resouce Development, 2010
11. Letter of Appreciation: Panel in Academic Board, 2010
12. Letter of Appreciation: Committee in Quality Management System, 2010
13. Certificate of Appreciation: Co-Chairman, ICAME 2010
14. Certificate of Appreciation (Participant): ICAME 2013
15. Certificate of Appreciation (Participant): MITC 2013
16. Certificate of Appreciation (CHAIRMAN): MITC 2013
17. Letter of Appreciation: Customer Feedback Committee, 2010
18. Letter of Appreciation: Trust Fund Committee, Faculty of Mechanical Engineering, 2010
19. Letter of Appreciation: AKNC Committee, Head of Project, 2009 - present
20. Certificate of Attendance/Appreciation: *Program Hala Tuju & Forum Jaringan Industri & Masyarakat, UiTM 2011*
21. Letter of Appreciation: Committee ISO 9001:2000 certification and audit, 2010
22. Certificate of Appreciation (In Appreciation of Notable Contribution as Secretariat at the Regional Tribology Conference 2011), Head of Committee and Emcee.
23. Letter of Appreciation: Academic Programme Accreditation Committee, 2011
24. Letter of Appreciation: Panel for Akademik Pengajian Siswazah (JAPS), 2011
25. Letter of Appreciation: Member in Curriculum Development Committee, 2011
26. Letter of Appreciation: Committee for Quality Management System, 2011
27. Letter of Appreciation: Chairman for Research, Publication, and Consultation, 2011
28. Letter of Appreciation: Committee in Human Resource Development
29. Letter of Appreciation: Board of Academic Board, 2011
30. Letter of Appreciation: Committee in *Pemantauan Operasi Akademik (JPOA)*
31. Letter of Appreciation: Chairman of Institution of Mechanical Engineering and Technology Advacement IMETA, 2011
32. Letter of Appreciation: Key member in Executive Committee, 2011
33. Letter of Appreciation: Chairman of Business Unit, 2011
34. Letter of Appreciation: Committee member for *Pengelola Anugerah Kecemerlangan Perhubungan Industri dan Masyarakat, ICAN, UiTM*
35. Letter of Appreciation: Chairman for Marketing Arms Workshop, 2012
36. Letter of Appreciation: Speaker ISI Index Journal Writing Workshop 1, 2012
37. Certificate of Appreciation: Program Committee German Malaysian Advances in Mechatronics and Engineering Technology Hannover Germany, 2012
38. Letter of Appreciation: Advisor for IID-FKM, 2012

39. Certificate of Appreciation: Coordinator, Bengkel Perancangan Strategik FKM 2012 Fakulti Kejuruteraan Mekanikal
40. Certificate of Appreciation: 2nd International Symposium on Robotics and Intelligent Sensors (IRIS 2012) - Invited Session Co-Chair
41. Certificate of Appreciation: Officiating the Program Mechanical Design Day
42. Letter of Appreciation for Poster "Students Employability", 2013 (from ICAN OFFICE)
43. Certificate of Appreciation: Panel of Assessor for RAGS, 2013
44. Certificate of Appreciation: (Quarterly Engineering Technical Session QETS), PROTON, 2011- 2013
45. Certificate of Appreciation: Member in *Lab Penjanaan Pendapatan & Penjimatan Kos*, ICAN OFFICE, 2013
46. Letter of Appreciation for being PRGS Panel of Assessor, 2013
47. Letter of Appreciation for being ERGS Panel of Assessor, 2013
48. Letter of Appreciation for being FRGS Panel of Assessor, 2013
49. Letter of Appreciation for being IIDEx2013 Judge, 2013
50. Letter of Appreciation: on the Final Year Projects Supervision, 2010
51. Certificate of Appreciation: Technical Session Chair- International Conference on Advances in Mechanical Engineering , 2-5 Dec 2010.
52. Certificate of Appreciation: Co-Chairman International Conference on Advances in Mechanical Engineering , 2-5 Dec 2010.
53. Certificate of Appreciation: Contribution- Overall Champion of the Vice Chancellor Quality Award, 2010
54. Certificate of Participation: in Academic Conference 10 -12 Feb 2011, (Deputy Vice Chancellor- Academic & International)
55. Letter of Appreciation: participating in activities for UiTM Alumni, 6 Jun 2011.
56. Certificate of Participation: Leadership Symposium, 5 Jul 2011 (Assistant Vice-Chancellor iLQAM UiTM)
57. Certificate of Appreciation: Fundamental Research Grant Scheme (Assistant Vice Chancellor, Research UiTM)
58. Certificate of Appreciation: Exploratory Research Grant Scheme (Assistant Vice Chancellor, Research UiTM)
59. Certificate of Appreciation: as a Member Committee Member – Vice Chancellor Quality Award 2011, 31 Oct – 1 Nov 2011.
60. Certificate of Participation: in Vice Chancellor's Quality Award (presenter), 1 Nov 2011 (Vice Chancellor UiTM)
61. Certificate of Participation: in ESQ Leadership Training, 27-28 Dec 2011 (ESQ leadership)
62. Certificate of Participation: in Strategic Planning for Academic, 2012
63. Certificate of Appreciation: Chairman in Industry Outreach Program, 2012
64. Letter of Appreciation: as the member of committee in Outcome Based Education, 2012
65. Letter of Appreciation: as the Advisor for National Competition of Speak Out For Engineering, 2012
66. Letter of Appreciation: as the member of committee for ISO Quality, 2012
67. Certificate of Appreciation: Programme Committee & Paper Presentation – German Malaysian Workshop 2012, 27-29 June, Hannover 2012.
68. Certificate of Appreciation: Participation –Perodua Eco-Challenge 2012 Team, July 2012.
69. Certificate of Appreciation: Session Chair –International Symposium on Robotics and Intelligent Sensors 2012, 4-6 Sep 2012.
70. Certificate of Appreciation: Keynote Session Chair –International Symposium on Robotics and Intelligent Sensors 2012, 4-6 Sep 2012.

References

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