



**Kurikulum Vitae Penuh  
Full Curriculum Vitae**

Url: <http://www.mohdfadzli.com>

Short CV: [http://www.mytribos.org/pdf/ShortCV\\_fadzli.pdf](http://www.mytribos.org/pdf/ShortCV_fadzli.pdf)

Google Scholar: <http://scholar.google.com.my/citations?user=MVWeki0AAAAJ>

ResearchGate: [https://www.researchgate.net/profile/Mohd\\_Fadzli\\_Bin\\_Abdollah](https://www.researchgate.net/profile/Mohd_Fadzli_Bin_Abdollah)

ORCID: <http://orcid.org/0000-0002-2460-2888>

**I. Maklumat Peribadi:  
Personal Particulars**

**Nama:** Mohd Fadzli Bin Abdollah  
**Name:** \_\_\_\_\_

**Tarikh Lahir:** 14 June 1980  
**Date of Birth:** \_\_\_\_\_ **Fakulti/Pusat:** Faculty of Mechanical Engineering  
**Faculty/Centre** \_\_\_\_\_

**Jawatan:** Assoc. Prof. / Deputy Dean  
**Current Position:** \_\_\_\_\_ **Tetap / Sementara/Kontrak:** Permanent  
**Permanent/temporary** \_\_\_\_\_

**Gred Kumpulan:** DS54  
**Gred position** \_\_\_\_\_ **Tarikh Pertama Berkhidmat di UTeM :** 1 September 2005  
**Date of First Appointment with UTeM** \_\_\_\_\_

**Nombor Telefon:** 06-2346805  
**Telephone Number** \_\_\_\_\_ **E-mel:** mohdfadzli@utem.edu.my  
**E-mail** \_\_\_\_\_

**Tarikh Pengemaskinian CV:** 22 September 2017  
**Date of CV updated** \_\_\_\_\_

**II. A. Kelulusan Akademik dan Profesional** (Sila senaraikan semua kelulusan akademik bermula daripada Ijazah Sarjana Muda mengikut susunan kronologi)  
**Academic and Professional Qualifications** (Please list all academic qualifications, from your first degree in chronological order)

Tahun Year	Kelulusan Degree	Pengkhususan Discipline	Universiti University
2004	Bachelor of Engineering with Honors (B.Eng. (Hons.))	Mechanical Engineering	Universiti Kebangsaan Malaysia (UKM)
2005	Master of Engineering (M.Eng.)	Mechanical Engineering	Universiti Kebangsaan Malaysia (UKM)
2011	Doctor of Engineering (Dr.Eng.)	Mechanical Science and Engineering	Nagoya University, Japan

**C. Tajuk tesis pascasiswazah** (Sila senaraikan tajuk tesis bermula daripada peringkat Sarjana mengikut susunan kronologi)  
**Titles of postgraduate thesis written** (Please list all thesis written, from your Master Degree in chronological order)

- (a) Impact wear mechanisms of DLC coating, Dr.Eng., 2011
- (b) Fabrication of Porous Alumina as a Synthetic Bone in Biomedical Applications, M.Eng., 2005

**III. Anugerah akademik/penyelidikan  
Academic/research award**

- (a) Best Paper Award – ISORIST'17
- (b) Outstanding Paper Award 2017 (Industrial Lubrication and Tribology Journal) by Emerald Publishing Limited, UK
- (c) Best Tribology Paper Award – APSIM2016
- (d) Candidate for Excellence Service Medal 2015 – Ministry of Higher Education Malaysia.
- (e) Excellence Service Award 2015 – Universiti Teknikal Malaysia Melaka.
- (f) University Academic Award 2015 – Quality Paper Award: Winner
- (g) University Academic Award 2014 – Potential Academic Award: Consolation prize
- (h) University Academic Award 2013 – Special Award (PECUTeM2013 Group): Winner
- (i) University Academic Award 2013 – Research Award: Consolation prize
- (j) University Academic Award 2013 – Potential Academic Award: Nomination
- (k) Excellence Service Award 2012 – Universiti Teknikal Malaysia Melaka.
- (l) University Academic Award 2012 – Special Award (PGMC2012 Group): Winner
- (m) University Academic Award 2012 – Special Award (AVT Group): Nomination
- (n) Scholarship award under academic training scheme, Universiti Teknikal Malaysia Melaka, 1 December 2008 ~ 10 November 2011.
- (o) Dean List Award 2004/2005, Faculty of Engineering, Universiti Kebangsaan Malaysia.

**IV. Bidang Penyelidikan Utama  
Main Areas of Research Interest**

- (a) Tribology (Friction and Wear of Eco-Materials)
- (b) Surface Engineering

**V. Projek Penyelidikan Yang dilaksanakan (Sila tulis tajuk, tajaan dan nombor rujukan projek sejak 2007)  
Completed/On-going research project since 2007 (Please write the title, funder and reference number)**

Duration	Title	Project Number/Source	Role	Amount	Status
1.8.2007 – 28.2.2009	A study on the re-resolution heat treatment of an aluminum alloy.	PJP/2007/FKM(6)/S00345	Project leader	RM20,000	Completed
1.9.2006 – 30.4.2008	Design and development of a semi active damper for automotive suspension system.	PJP/2006/FKM(12)/S00215	Co-researcher	RM20,000	Completed
1.4.2009 – 31.10.2011	Impact wear mechanisms of DLC coating.	Doctor of Engineering Thesis (Nagoya University; Denso Japan; UTeM)	Project leader	JPY1,000,000	Completed
2012	Perodua Eco-Challenge 2012	Perodua	Co-researcher	RM10,000	Completed
2013	Taiho Kogyo Tribology Research Foundation for Symposium & Young Tribologist Grants. (Awarded to MITC2013)	Taiho Kogyo Tribology Research Foundation (TTRF)	Project leader	USD15,000	Completed
2013	Perodua Eco-Challenge 2013	Perodua	Co-researcher	RM15,000	Completed

1.5.2012 – 30.4.2014	Engine performance and emission characteristics of hydrogen enrichment in light duty diesel engine.	FRGS/2012/FKM/TK08/02/1/F00140	Co-researcher	RM92,300	Completed
1.6.2012 – 31.5.2014	Tribological investigation of nano-based engine oil diluted with biodiesel fuel.	PJP/2012/FKM(40A)/S01044	Project leader	RM18,060	Completed
1.10.2012 – 31.5.2014	Fuel specification and engine testing.	MTUN/2012/UMP-FKM/1 M00005	Co-researcher	RM25,000	Completed
1.10.2012 – 31.3.2014	Preliminary study of the availability of using lube oil based on local straight vegetable oil in automotives and other applications.	PJP/2012/FTK(61A)/S01071	Co-researcher	RM11,000	Completed
1.10.2012 – 31.7.2014	Influence of nanolubricant on tribological performance, emissions and fuel consumption of a diesel engine.	PJP/2012/FKM(11A)/S01086	Co-researcher	RM20,000	Completed
7.6.2013 – 6.12.2014	Experimental investigation to the effect of nano-based engine oil on performance and emission characteristics of a diesel engine.	TWAS-COMSTECH Joint Research Grants (GLUAR/2013/FKM(2)/A00003)	Project leader	USD8,000	Completed
1.6.2013 – 31.12.2014	Green Technology and Business Performance among Malaysia SMEs in Manufacturing Industries	PJP/2013/FPTT(2A)/S01144	Co-researcher	RM8,100	Completed
1.12.2012 – 14.12.2015	A new thermal management of HEVs/EVs battery modules with microPCM/CNT composites.	RAGS/2012/UTEM/TK01/1	Project leader	RM79,930	Completed
15.3.2015 – 15.9.2015	Homogenizer rotor & stator re-design for high shear force & shorter cycle time	GLuar/PPRN/2015/FKE/G00030	Co-researcher	RM30,000	Completed
1.5.2013 – 30.4.2016	New strategies for energy saving: The future focus on energy efficient vehicles (EEVs) in Malaysia.	TD-FRGS/1/2013/UTEM/02/1	Program leader	RM443,280	Completed

1.6.2013 – 31.5.2016	A comparative study of tribological behaviour of new palm shell activated carbon reinforced aluminum matrix composite (PSAC-Al) in different environmental conditions.	ERGS/2013/FKM/TK01/UTEM /02/04/E00016	Project leader	RM100,000	Completed
1.6.2013 – 31.5.2015	Investigation on the mechanical properties of novel oil palm fibre reinforced-metal laminate systems.	ERGS/1/2013/TK01/UTEM/02/07	Co-researcher	RM100,000	Completed
17.12.2013 - 16.06.2016	Design for a new eco-lightweight friction material with palm oil fiber enrichment for wear characteristics study	CG060-2013	Project leader 2	RM143,750	Completed
1.10.2013 - 30.9.2015	Tribological behavior of green carbon fibre waste reinforced thermoplastic composites prepared via melt mixing	RAGS/2013/FKP/TK04/02/B00029	Co-researcher	RM70,000	Completed
1.10.2013 - 30.9.2015	Feasibility study of palm oil as new insulation medium for power transformer	RAGS/2013/FKE/TK02/01/B00024	Co-researcher	RM61,500	Completed
1.1.2013 - 31.12.2015	Proton Green Mobility Challenge	GLUAR/2013/FKE(1)/I00001	Co-researcher	RM41,000	Completed
1.8.2014 - 31.1.2016	Development of a neoprene gasket with an interlock mechanism for portable hydrogen cell	PJP/2014/FKM(13A)/S01344	Co-researcher	RM14,990	Completed
1.8.2014 - 31.1.2016	Study of transformer oil dispersed with nanoparticles as alternative insulation liquid	PJP/2014/FKE(16B)/S01363	Co-researcher	RM24,000	Completed
1.10.2013 - 29.8.2016	Wear characteristics study of a new eco-lightweight friction material with palm oil fiber enrichment	RAGS/2013/FKM/TK01/03/B00042	Co-researcher	RM68,000	Completed
1.7.2014 - 30.6.2016	A novel approach of carbon powders assisted conventional electrical discharge machining on low conductivity silicon carbide	FRGS/1/2014/TK01/FKP/02/1/F00220	Co-researcher	RM79,000	Completed

1.8.2014 - 30.01.2017	Effectiveness of lead-free bearing material with optimal surface texture-filled hBN nanoparticles for friction control	PJP/2014/FKM(9A)/S01326	Project leader	RM20,000	Completed
1.12.2014 - 30.11.2016	A new method of CFD modeling for automotive catalyst monoliths by integrating porous medium and individual channel approaches	FRGS/2/2014/TK01/FKM/02/F00231	Co-researcher	RM118,200	Completed
26.1.2015 - 25.1.2017	Investigation of the motion and force characteristic of a 3-phase driven rotary electromagnetic microactuator using FEM analysis for high thrust force and low friction motion	RACE/F3/TK5/FKE/F00249	Co-researcher	RM49,500	Completed
1.12.2014 - 30.11.2016	Experimental investigation on vibration characteristics on ball bearing operated with hexagonal boron nitride (Hbn) nanoparticle additives in engine oil	RAGS/1/2014/TK01/FKM/B00066	Co-researcher	RM55,000	Completed
1.12.2014 - 30.11.2016	Parametric investigation of biodiesel properties to the storage condition	RAGS/1/2014/TK06/FKM/B00071	Co-researcher	RM57,500	Completed
1.12.2014 - 30.11.2016	Investigation of motion and force characteristic of a 3-phase rotary electromagnetic microactuator using non-linear controller for high thrust force and low friction motion	RAGS/1/2014/TK01/FKE/B00049	Co-researcher	RM53,000	Completed
1.12.2015 - 30.11.2017	Physical property modification of vegetable oil based lubricant using zinc ion derivatives	RAGS/1/2015/TK03/UTEM/03/2	Co-researcher	RM73,490	On-going
1.12.2015 - 30.11.2017	Investigation on layer bio-adhesion of fused filament fabrication to enhance manufacturability	FRGS/1/2015/TK03/UTEM/02/14	Co-researcher	RM79,400	On-going
1.12.2015 - 30.11.2017	Physio-chemical evaluation and tribological studies of eco-friendly biodegradable novel bio-lubricants based on banana peel waste	FRGS/1/2015/TK10/UTEM/02/6	Co-researcher	RM142,300	On-going

1.8.2016 - 31.07.2018	Synthesis of graphene film from palm kernel activated carbon using chemical vapor deposition for durability control	FRGS/1/2016/TK10/FKM-CARE/F00315	Project leader	RM117,200	On-going
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**VI. Senarai Anugerah Pameran/Pertandingan Penyelidikan yang diperolehi**  
*List of research exhibition/competition awards*

Name/Event	Award
UTeM Research and Innovation Expo 2015 (UTeMEX 2015)	<ul style="list-style-type: none"> <li>- <b>Gold Award</b> "Agro-waste for sustainable self-lubricating materials" (Principle Researcher)</li> <li>- <b>Special Jury Award</b> "Agro-waste for sustainable self-lubricating materials" (Principle Researcher)</li> <li>- <b>Silver Award</b> for product "µPCM-MWCNT composites as an effective thermal energy storage" (Principle Researcher)</li> </ul>
Mini UTeM Research and Innovation Expo 2014 (Mini UTeMEX 2014)	<ul style="list-style-type: none"> <li>- <b>Silver Award</b> for product "B-Lube" (Principle Researcher)</li> </ul>
BioInnovation Awards 2014	<ul style="list-style-type: none"> <li>- <b>Bronze Award</b> for product "New Enhanced Engine Oil with hBN Nnparticles Additive" (Principle Researcher)</li> </ul>
Malaysia Technology Expo 2014 (MTE2014)	<ul style="list-style-type: none"> <li>- <b>Bronze Award</b> for product "Emerging Lubrication Technology for Ball Bearings" (Principle Researcher)</li> </ul>
Perodua Eco-Challenge 2013 (Secretary/Advisor/Participant)	<ul style="list-style-type: none"> <li>- <b>Overall 1<sup>st</sup> Runner-Up</b></li> <li>- <b>Champion for Engineering Challenge</b></li> <li>- <b>1<sup>st</sup> Runner-Up for Longest Distance Challenge</b></li> <li>- <b>2<sup>nd</sup> Runner-Up for Time Attack Challenge</b></li> <li>- <b>2<sup>nd</sup> Runner-Up for Marketing Challenge</b></li> </ul>
UTeM Research and Innovation Expo 2013 (UTeMEX 2013)	<ul style="list-style-type: none"> <li>- <b>Gold Award</b> "Nano-Oil as Effective Lubricants for Improving a Small Diesel Engine Performance" (Principle Researcher)</li> <li>- <b>Silver Award</b> for product "Emerging Lubrication Technology of Bearing Materials" (Principle Researcher)</li> </ul>
International Conference and Exposition on Invention of Institutions of Higher Learning 2013 (PECIPTA 2013)	<ul style="list-style-type: none"> <li>- <b>Silver Award</b> for product "Nano-oil for a Greener Future" (Principle Researcher)</li> </ul>
BioMalaysia & Bioeconomy Asia Pacific 2013 Conference & Exhibition	<ul style="list-style-type: none"> <li>- <b>Silver Award</b> for product "Nano-oil for a Greener Future" (Principle Researcher)</li> </ul>
Proton Green Mobility Challenge 2012 (Head of Thermal Management/Participant):	<ul style="list-style-type: none"> <li>- <b>Overall 2<sup>nd</sup> Runner-Up</b></li> <li>- <b>Winner for V-Max</b></li> <li>- <b>Winner for Best R&amp;D</b></li> <li>- <b>Winner for Best Sponsorship &amp; Marketing/website</b></li> </ul>
Perodua Eco-Challenge 2012 (Secretary/Advisor/Participant)	<ul style="list-style-type: none"> <li>- <b>Overall number 7</b></li> </ul>

**VII. Bilangan dan no. pendaftaran Harta Intelek yang dihasilkan**  
*Quantity and registration number of Intellectual Property*

CRLY00001905 (Copyright) – Emerging Lubrication Technology for Ball Bearings (granted)  
CRLY00001906 (Copyright) – Nano-oil for a Greener Future (granted)  
CRLY00004439 (Copyright) – Agro-waste for sustainable self-lubricating materials (granted)  
2016004243 (Trademark) – CARE (filed)

**VIII. Bilangan penerbitan dalam Jurnal Berimpak**  
**Number of publication in high index journals**

Journal	Indexing	Number of Publication
Surface and Coatings Technology	ISI (Q1)	1
Wear	ISI (Q1)	1
Tribology International	ISI (Q1)	2
Materials & Design	ISI (Q1)	1
Tribology Transactions	ISI (Q2)	1
Composite Interfaces	ISI (Q2)	1
Particulate Science and Technology	ISI (Q3)	1
Mechanics & Industry	ISI (Q4)	2
Industrial Lubrication and Tribology	ISI (Q4)	6
International Journal of Surface Science and Engineering	ISI (Q4)	1
Jurnal Tribologi	ISI	1
Jurnal Teknologi (Sciences and Engineering)	ISI	7
Energy Education Science and Technology Part A	Scopus	1
Procedia Engineering	Scopus	7
Applied Mechanics and Materials	Scopus	5
Advanced Materials Research	Scopus	3
Tribology Online	Scopus	3
Journal of Mechanical Engineering	Scopus	3
ARPN Journal of Engineering and Applied Sciences	Scopus	3
International Journal of Applied Chemistry	Scopus	1
Journal of Mechanical Engineering and Technology	MyCite	1
		<b>52</b>

**IX. SENARAI UTAMA PENERBITAN** (*penerbitan jurnal/prosiding/buku sejak 2007 nyatakan impak faktor*)  
**List of Major Publication** (*Please list publication since 2007- state the impact factor*) – Please use Font Arial 9

**Journal Articles: Current H-index = 6 (Scopus)**

- [1] Mat Tahir, N.A., **Abdollah, M.F.B.**, Tamaldin, N., Amiruddin, H., & Mohamad Zin, M.R.B. (2018). A brief review on the wear mechanisms and interfaces of carbon based materials. *Composite Interfaces*, In Press. DOI: <https://doi.org/10.1080/09276440.2018.1380472> (ISI).
- [2] Mahmud, D.N.F., **Abdollah, M.F.B.**, MASripan, N.A.B., Tamaldin, N., & Amiruddin, H. (2018). Frictional wear stability mechanisms of an activated carbon composite derived from palm kernel by phase transformation study, *Industrial Lubrication and Tribology*. Accepted for publication. (ISI).
- [3] Shuhimi, F.F., **Abdollah, M.F.B.**, Kalam, M.A., MASjuki, H.H., Mustafa, A., Mat Kamal, S.E., & Amiruddin, H. (2017). Effect of operating parameters and chemical treatment on the tribological performance of natural fibre composites: A review. *Particulate Science and Technology*, In Press. DOI: <http://dx.doi.org/10.1080/02726351.2015.1119226> (ISI).
- [4] Mohmad, M., **Abdollah, M.F.B.**, Tamaldin, N., & Amiruddin, H. (2017). The effect of dimple size on the tribological performances of a laser surface textured palm kernel activated carbon-epoxy composite. *Industrial Lubrication and Tribology*, 69(5), 768-777. DOI: <https://doi.org/10.1108/ILT-05-2016-0121> (ISI).
- [5] Mat Tahir, N.A., **Abdollah, M.F.B.**, Hasan, R., Amiruddin, H., & Abdullah, M.I.H.C. (2017). Statistical models for predicting wear and friction coefficient of palm kernel activated carbon-epoxy composite using the ANOVA. *Industrial Lubrication and Tribology*. 69(5), 761-767. DOI: <https://doi.org/10.1108/ILT-02-2016-0031> (ISI).
- [6] Rosley, M.N., Tamaldin, N., **Abdollah, M.F.B.**, Zakaria, M.Z., & Yamin, M.K.A. (2017). Emission characteristics of hydrogen enrichment in light duty single cylinder diesel engine. *ARPN Journal of Engineering and Applied Sciences*, 12(14), 4255-4258. (Scopus).
- [7] Lee, S.C., Tamaldin, N., & **Abdollah, M.F.B.** (2017). Tribological performance of low blend decanter cake biodiesel. *Industrial Lubrication and Tribology*. 69(3), 425-432. DOI: <http://dx.doi.org/10.1108/ILT-08-2016-0180> (ISI).
- [8] Mustafa, A., **Abdollah, M.F.B.**, Amiruddin, H., Shuhimi, F.F., & Muhammad, N. (2017). Optimization of friction properties of kenaf polymer composite as an alternative friction material. *Industrial Lubrication and Tribology*. 69(2), 259-266. DOI: <http://dx.doi.org/10.1108/ILT-05-2016-0118> (ISI).

- [9] Abdullah, M.I.H.C., **Abdollah, M.F.B.**, Amiruddin, H., Mat Nuri, N.R., & Saleman, A.R. (2017). The hBN nanoparticles as an effective engine oil additive to enhance the durability and performance of a small diesel engine. *Journal of Mechanical Engineering*, S11(1), 103-112 (Scopus). [\[Link\]](#)
- [10] Amiruddin, H., Mahmood, W.M.F.W., Abdullah, S., Mansor, M.R.A., **Abdollah, M.F.B.**, Mamat, R., & Alias, A. (2017). Effect of vaned diffuser on the performance of small turbocharger. *Journal of Mechanical Engineering*, S11(1), 227-236. (Scopus). [\[Link\]](#)
- [11] Abdullah, M.I.H.C., **Abdollah, M.F.B.**, Amiruddin, H., Tamaldin, N., & Mat Nuri, N.R. (2017). Tribological effects of nano-based engine oil diluted with biodiesel fuel. *International Journal of Surface Science and Engineering*, 11(1), 12-22. DOI: <http://dx.doi.org/10.1504/IJSURFSE.2017.10003784> (ISI).
- [12] H.A. Hamid, N.A.B. Masripan, M.F.B. Abdollah, R. Hasan, *Characterization of raw and ripen of banana peel wastes and it's oils extraction using Soxhlet method*, *International Journal of Applied Chemistry*, 12:1 (2016), pp. 1-5. (Scopus).
- [13] M.M. Zamberi, F.N. Ani, **M.F. Abdollah**, *Heterogeneous transesterification of rubber seed oil biodiesel production*, *Jurnal Teknologi (Sciences and Engineering)*, 78:6-10 (2016), pp. 105-110. DOI: <http://dx.doi.org/10.11113/jt.v78.9196> (ISI).
- [14] M.I.H.C. Abdullah, **M.F.B. Abdollah**, H. Amiruddin, N. Tamaldin, N.R. Mat Nuri, *Effect of hexagonal boron nitride nanoparticles as an additive on the extreme pressure properties of engine oil*, *Industrial Lubrication and Tribology*, (2016), 68:4 (2016), pp. 441-445. DOI: <http://dx.doi.org/10.1108/ILT-10-2015-0157> (ISI).
- [15] F.F. Shuhimi, **M.F.B. Abdollah**, M.A. Kalam, H.H. Masjuki, A. Mustafa, H. Amiruddin, *Tribological characteristics comparison for oil palm fibre/epoxy and kenaf fibre/epoxy composites under dry sliding conditions*, *Tribology International*, 101 (2016), pp. 247-254. DOI: <http://dx.doi.org/10.1016/j.triboint.2016.04.020> (ISI).
- [16] N.A. Mat Tahir, **M.F.B. Abdollah**, R. Hasan, H. Amiruddin, *The effect of sliding distance at different temperatures on the tribological properties of a palm kernel activated carbon-epoxy composite*, *Tribology International*, 94 (2016), pp. 352-359. DOI: <http://dx.doi.org/10.1016/j.triboint.2015.10.001> (ISI).
- [17] M.I.H.C. Abdullah, **M.F.B. Abdollah**, H. Amiruddin, N. Tamaldin, N.R. Mat Nuri, *The potential of hBN nanoparticles as friction modifier and antiwear additive in engine oil*, *Mechanics & Industry*, 17:1 (2016), pp. 104. DOI: <http://dx.doi.org/10.1051/meca/2015037> (ISI).
- [18] A.Z.I. Abdullah, **M.F.B. Abdollah**, B.T. Tee, H. Amiruddin, A.K. Mat Yamin, N. Tamaldin, *Thermal Conductivity and Latent Heat Properties of  $\mu$ PCM/MWCNT Composites for EVs Application*, *Advanced Materials Research*, 1133 (2016), pp. 131-135. DOI: <http://dx.doi.org/10.4028/www.scientific.net/AMR.1133.131> (Scopus).
- [19] M.I.H.C. Abdullah, **M.F.B. Abdollah**, H. Amiruddin, N. Tamaldin, N.R. Mat Nuri, *Effect of Diluted Nano-Oil on the Anti-wear and Friction Properties*, *Advanced Materials Research*, 1133 (2016), pp. 452-456. DOI: <http://dx.doi.org/10.4028/www.scientific.net/AMR.1133.452> (Scopus).
- [20] M.Z. Mohd Razi, **M.F.B. Abdollah**, N.R. Mat Nuri, H. Amiruddin, N. Tamaldin, *Friction Properties of Waste Cooking Oil with Banana Peel Broth*, *Advanced Materials Research*, 1133 (2016), pp. 579-582. DOI: <http://dx.doi.org/10.4028/www.scientific.net/AMR.1133.579> (Scopus).
- [21] N.A. Mat Tahir, **M.F.B. Abdollah**, R. Hasan, H. Amiruddin, *The effect of temperature on the tribological properties of palm kernel activated carbon-epoxy composite*, *Tribology Online*, 10:6 (2015), pp. 428-433. DOI: <http://doi.org/10.2474/trol.10.428>. (Scopus).
- [22] A.Z.I. Abdullah, **M.F.B. Abdollah**, H. Amiruddin, A.K. Mat Yamin, N. Tamaldin, *Thermal performance of  $\mu$ PCM/MWCNT composites at different ambient temperatures*, *Jurnal Teknologi (Science and Engineering)*, 77:21 (2015), pp. 103-108. DOI: <http://dx.doi.org/10.11113/jt.v77.6615>. (ISI).
- [23] A.H. Hamid, N.A.B. Masripan, J. Basiron, M.M.B. Mustafa, R. Hasan, **M.F.B. Abdollah**, R. Ismail, *Effect of banana peels as an additive on the tribological properties of paraffin oil*, *Jurnal Teknologi (Science and Engineering)*, 77:21 (2015), pp. 73-77. DOI: <http://dx.doi.org/10.11113/jt.v77.6610>. (ISI).
- [24] K.W. Chua, **M.F.B. Abdollah**, N.A. Mat Tahir, H. Amiruddin, *Frictional properties of palm kernel activated carbon-epoxy composite under various normal loads*, *Jurnal Teknologi (Sciences and Engineering)*, 76:10 (2015), pp. 1-4. DOI: <http://dx.doi.org/10.11113/jt.v76.5783>. (ISI).
- [25] M.Z. Zakaria, M.N.A. Saadun, N. Idris, N.F. Haminudin, **M.F. Abdollah**, E.Z. Ahmad, *Effect of pH towards hydrogen gas output of a small and portable alkaline electrolyser*, *Jurnal Teknologi (Sciences and Engineering)*, 76:5 (2015), pp. 49-52. DOI: <http://dx.doi.org/10.11113/jt.v76.5535> (ISI).
- [26] M.H.M. Hafidzal, M.Z.M. Razi, A. Hamzah, N.H. Razak, N.I. Zulkafli, **M.F.B. Abdollah**, S.A. Shamsudin, A. Roslizar, *Potential of mixed Zingiber officinale and Garcinia atroviridis as a treating medium for used cooking oil*, *ARPN Journal of Engineering and Applied Sciences*, 10:17 (2015), pp. 7784-7787. (Scopus).
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- [28] K.A.H. Al Mahmud, M.A. Kalam, H.H. Masjuki, **M.F.B. Abdollah**, *Tribological study of a tetrahedral Diamond-like-Carbon coating under vegetable oil-based lubricated condition*, *Tribology Transactions*, 58:5 (2015), pp. 907-913. DOI: <http://dx.doi.org/10.1080/10402004.2015.1025933> (ISI).



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- [1] **M.F.B. Abdollah**, H. Amiruddin. *When should I change my tire?* in *CARe Newsletter*, Issue 3, 2016, pp. 5. [\[Link\]](#)
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- [1] **M.F.B. Abdollah**, *Agricultural waste as a new tribological material*, SAKURA Symposium 2017, Nagoya, 12 September 2017 – Keynote Speaker.
- [2] H.A. Hamid, N.A.B. Masripan, R. Hasan, G. Omar, **M.F.B. Abdollah**, *Tribological behavioural of bio-oil extracted from peel waste of musa aluminata balbisiana*, *Proceedings of Mechanical Engineering Research Day 2017*, Melaka, 30 March 2017. [\[Link\]](#) (Google Scholar).
- [3] N.M.B.M. Sukery, M.I.H.C. Abdullah, A. Ahmad, **M.F.B. Abdollah**, N.R.M. Nuri, *Effect of virgin coconut oil, VCO as transmission lube oil based substitute on the friction properties*, *Proceedings of Mechanical Engineering Research Day 2017*, Melaka, 30 March 2017. [\[Link\]](#) (Google Scholar).
- [4] A.A.E.M. Nawi, M.I.H.C. Abdullah, **M.F.B. Abdollah**, N.R.M. Nuri, M.A. Samsudin, *Investigation on hBN nanoparticle dispersion stability in liquid phase with difference dispersion agents*, *Proceedings of Mechanical Engineering Research Day 2017*, Melaka, 30 March 2017. [\[Link\]](#) (Google Scholar).
- [5] A.R. Zulhildi, N.A.B. Masripan, S.O.A.N. Hayder, **M.F.B. Abdollah**, G. Omar, M.I. Syakir, A.H. Nurfaizey, S.H.S.M. Fadzullah, *Effect of temperature on friction of bio-lubricant under high loading capacity*, *Proceedings of Mechanical Engineering Research Day 2017*, Melaka, 30 March 2017. [\[Link\]](#) (Google Scholar).
- [6] N. Tamaldin, S.R. Ruslan, A.K. Mat Yamin, A. Md Saad, **M.F.B. Abdollah**, *Development of 3-cylinder composite engine: Analysis on strength and fuel efficiency*, *Proceedings of Mechanical Engineering Research Day 2017*, Melaka, 30 March 2017. [\[Link\]](#) (Google Scholar).
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- [10] **M.F.B. Abdollah**, D.N.F. Mahmud, N.A.B. Masripan, H. Amiruddin, N. Tamaldin, *On the relation between phase transformation and frictional stability of palm kernel activated carbon composite during dry sliding under different loads*, Proceedings of the 2nd African Congress in Tribology, Marrakesh, 16-19 April 2017.
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- [53] **M.F.B. Abdollah** and N. Umehara, *Preliminary study of impact wears behavior under large impact cycles*, Proceedings of The 4<sup>th</sup> Nagoya University – UCLA International Symposium, Kona, Hawaii, 6-7 September 2009, p. 20.
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- [55] **M.F. Abdollah**, F.R. Ramli, R. Hasan, R. Ismail and R. Mamat, *Design of an aluminum alloy side door impact beam for passenger cars*, Proceedings of International Conference on Mechanical and Manufacturing Engineering 2008, Johor Bahru, Johor, Malaysia, 21–23 May 2008.
- [56] M.N. Sudin, A.T. Din, **M.F. Abdollah** and S.A. Shamsudin, *Conceptual design of automotive bumper beam*, Proceedings of Conference on Design, Simulation, Product Development and Optimization (PRODUCT & DESIGN 2007), Batu Ferringhi, Penang, Malaysia, 10–11 December 2007.

**X. Keahlian Dalam Pertubuhan/Badan Profesional  
Membership in The Association/Professional Body**

- (a) Member, Materials Research Society, USA (Membership ID = 11050724): 2015 ~ to date  
 (b) Member, Society of Engineering Education Malaysia, MALAYSIA (Membership ID = P0267): 2015 ~ to date  
 (c) Member, Society of Tribologists and Lubrication Engineers, USA, (Membership ID = 60913) : 2014 ~ to date  
 (d) Member, Malaysian Tribology Society, MALAYSIA (Membership ID = L0213): 2011 ~ to date  
 (e) Graduate member, The Institution of Engineers, MALAYSIA (Membership ID = 34309): 2008 ~ to date  
 (f) Graduate member, Board of Engineers Malaysia, MALAYSIA (Membership ID = GE49335A) : 2006 ~ to date

**Informasi Tambahan  
Other Information**

**Working Experience / Administrative Positions**

Duration	Position
27/01/2016 – present	Associate Professor, UTeM
6/2012 – 26/01/2016	Senior Lecturer, UTeM
1/9/2005 – 6/2012	Lecturer, UTeM
2005 – 2005	Package Development Engineer, Vishay (M) Semiconductor
2004 – 2005	Tutor, UKM
01/08/2016 – present	Deputy Dean (research and Postgraduate Studies), Faculty of Mechanical Engineering, UTeM.
01/08/2016 – present	Executive Committee, Society of Engineering Education Malaysia (SEEM).
17/11/2015 – present	Secretary, Malaysian Tribology Society (MYTRIBOS).
01/02/2016 – 31/07/2016	Coordinator, Centre for Advanced Research on Energy, UTeM.
19/08/2014 – 04/04/2016	Executive Committee, Society of Engineering Education Malaysia (SEEM).
01/11/2013 – 31/10/2015	Manager, Centre for Advanced Research on Energy, UTeM.

18/11/2013 – 17/11/2015

Vice Secretary, Malaysian Tribology Society (MYTRIBOS).

1/4/2012 – 31/10/2013

Head of Department (Diploma Studies), Faculty of Mechanical Engineering, UTeM.

**Graduated Postgraduate/Undergraduate Student**

1. 2017: Ashafi'e Bin Mustafa, MSc. (Research) – Supervisor
2. 2017: Adli Zil Ikram Bin Abdullah, MSc. (Research) – Supervisor
3. 2017: Nur Saidatul Fatimah Binti Abdul Rashid, MEng. (Taught Course) – Supervisor
4. 2017: Fairuz Fazillah Binti Shuhimi, MSc. (Research) – Supervisor
5. 2016: Ahmed Qays Khudhair. MEng. (Mixed mode) – Supervisor
6. 2016: Noor Ayuma Binti Mat Tahir, MSc. (Research) – Supervisor
7. 2016: Muhammad Ilman Hakimi Chua Bin Abdullah, Ph.D – Supervisor
8. 2015: Khairul Amzar Bin Mohd Kassim, MEng. (Taught Course) – Supervisor
9. 2015: Mohd Muhyiddin Bin Mustafa, MEng. (Taught Course) – Co-supervisor
10. 2014: Mohd Hafidz Bin Zakaria, MSc. (Research) - Co-supervisor
11. 2005 – 2015: More than 50 undergraduate students - Supervisor

**Current Student Supervision**

Student	Role (quantity)	Total
Ph.D	Supervisor (1); Co-supervisor (2)	3
MSc. (Research)	Supervisor (3); Co-supervisor (3)	6
B.Eng.	Supervisor (4)	4

**Lectures (Postgraduate course)**

1. Project Management
2. Failure Mechanics
3. Research Project (Coordinator)
4. Master Project (Coordinator)

**Lectures (Undergraduate course)**

- |                               |   |
|-------------------------------|---|
| 5. Tribology                  | 10. Automotive Component Design             |
| 6. Automotive Technology      | 11. Materials Science                       |
| 7. Vehicle Structure Analysis | 12. Experimental Methods                    |
| 8. CES Edupack Software       | 13. Engineering Graphics (AutoCAD, BrisCAD) |
| 9. Mechanic of Machines       | 14. Automotive Laboratory                   |

**Expertise Contributions**

Expertise Contribution	Information Details
Thesis Examiner	<ol style="list-style-type: none"> <li>1. <b>PhD. UTM</b> – Nurul Aini Binti Mohd Ahyan</li> <li>2. <b>MSc. UiTM</b> – Nor Syahirah Binti Mohamad</li> <li>3. <b>MSc. UM</b> – Ali Shahir Shawkat</li> <li>4. <b>MSc. UTeM</b> – Anisah Binti Abd Latiff</li> <li>5. <b>MSc. UTeM</b> – Hikmah Binti Zainuddin</li> <li>6. <b>MSc. UTeM</b> – Nurul Hidayah Binti Omar</li> <li>7. <b>MSc. UTeM</b> – Mohammad Nazry Bin Rosley</li> <li>8. <b>MSc. UTeM</b> – Nur Shakinah Binti Mohd Isa</li> <li>9. <b>MSc. UTeM</b> – Mohd Syakir Bin Ahmad</li> <li>10. <b>MSc. UTeM</b> – Abdurahman Dwijotomo</li> </ol>
Viva Chair	<ol style="list-style-type: none"> <li>1. <b>MEng. UTeM</b> – Amer Adil Abdullah Kareem</li> <li>2. <b>MSc. UTeM</b> – Fadzlin Binti Abd Khair</li> </ol>

	<p>3. <b>MSc. UTeM</b> – Or Khai Hee</p> <p>4. <b>MSc. UTeM</b> – Loh Xiao Hui</p>
Speaker	<p>1. <b>Keynote speaker – SAKURA Symposium 2017</b>, Nagoya, 12 September 2017.</p> <p>2. <b>Speaker – High Impact Journal Writing</b>, UTeM, 13 October 2016.</p> <p>3. <b>Speaker – How to Publish in High-Impact Journal</b>, UTeM, 14 May 2016.</p> <p>4. <b>Invited speaker - JAST Tribology Conference Spring 2014</b>, Tokyo, 19-21 May 2014.</p> <p>5. <b>Speaker/Demonstrator - Short course “Materials selection for engineering eco-design using CES”</b>, UTeM, 12 February 2014.</p>
Editor	<p>1. <b>Editor-in-Chief (2017-2019) - Jurnal Tribologi</b> (ISI; ISSN: 2289-7232). <a href="#">[Link]</a></p> <p>2. <b>Editor-in-Chief – Proceedings of Mechanical Engineering Research Day 2017</b> (ISBN: 9789670257884), March 2017. <a href="#">[Link]</a></p> <p>3. <b>Editor – Proceedings of Proceedings of International Conference on Advanced Processes and Systems in Manufacturing (APSIM 2016)</b> (ISI-CPCI; ISBN: 9789671362518), October 2016. <a href="#">[Link]</a></p> <p>4. <b>Editor-in-Chief – Proceedings of Mechanical Engineering Research Day 2016</b> (ISI-CPCI; ISBN: 9789670257709), March 2016. <a href="#">[Link]</a></p> <p>5. <b>Editor-in-Chief – Proceedings of Malaysian International Tribology Conference 2015</b> (ISI-CPCI; ISBN: 9789671362501), November 2015. <a href="#">[Link]</a></p> <p>6. <b>Associate Editor-in-Chief (2014-2017) - Jurnal Tribologi</b> (ISI; ISSN: 2289-7232). <a href="#">[Link]</a></p> <p>7. <b>Editor – Proceedings of Mechanical Engineering Research Day 2015</b> (ISI-CPCI; ISBN: 9789670257518), March 2015. <a href="#">[Link]</a></p> <p>8. <b>Editor – Directory of Open Access Journals</b> (DOAJ).</p> <p>9. <b>Editor – Proceedings of MUCET2014</b> (ISBN: 9789670257532), March 2015. <a href="#">[Link]</a></p> <p>10. <b>Editor – Buku Panduan Galas Datar (Handbook of Plain Bearings)</b> (ISBN: 9789831007884), January 2015.</p> <p>11. <b>Editor - CARE: Introduction to Researchers Profiles</b> (ISBN: 9789670257440), October 2014. <a href="#">[Link]</a></p> <p>12. <b>Guest Editor – Industrial Lubrication and Tribology</b> (ISI Q4; ISSN: 0036-8792): Special Issue on 50th Years of Tribology - Sustainable Manufacturing - expected to publish in April 2017.</p> <p>13. <b>Guest Editor - International Journal of Materials and Product Technology</b> (ISI Q4; ISSN: 0268-1900): Special Issue on Materials Design and Development in Tribology – Vol. 53, No. 3/4, 2016. <a href="#">[Link]</a></p> <p>14. <b>Chief Guest Editor – Journal of Materials Research</b> (ISI Q3; ISSN: 0884-2914): Special Issue on Recent Advances and Challenges in Carbon-Based Tribomaterials – Vol. 31, No. 13, 2016. <a href="#">[Link]</a></p> <p>15. <b>Guest Editor – Transactions of the IMF</b> (ISI Q3; ISSN: 0020-2967): Special Issue on Coatings for Tribology – Vol. 94, No. 4, 2016. <a href="#">[Link]</a></p> <p>16. <b>Guest Editor – Tribology - Materials, Surfaces &amp; Interfaces</b> (Scopus; ISSN: 1751-5831): Special Issue in MITC2015: Tribology for Sustainable Development – Vol. 10, No. 2, 2016. <a href="#">[Link]</a></p> <p>17. <b>Guest Editor – Composite Interfaces</b> (ISI Q3; ISSN: 0927-6440): Special Issue of MITC2015 – Vol. 23, No. 6, 2016. <a href="#">[Link]</a></p> <p>18. <b>Chief Guest Editor - Jurnal Teknologi (Sciences &amp; Engineering)</b> (Scopus; ISSN: 1877-7058): Special Issue on Recent Advances and Challenges in Energy Research for Greener Future Part 1 – Vol. 77, No. 21, 2015. <a href="#">[Link]</a></p> <p>19. <b>Guest Editor - Jurnal Teknologi (Sciences &amp; Engineering)</b> (Scopus; ISSN: 1877-7058): Special Issue on Recent Research in Tribology – Vol. 66, No. 3, 2014. <a href="#">[Link]</a></p> <p>20. <b>Editor - Procedia Engineering</b> (ISI-CPCI; ISSN: 1877-7058): Special Issue on Malaysian International Tribology Conference 2013 (MITC2013) – Vol. 68, 2013. <a href="#">[Link]</a></p>
Journal/Conference Paper Review	<p>1. International Journal of Mechanics and Materials in Design (ISI Q1; ISSN: 1569-1713)</p> <p>2. Tribology International (ISI Q1; ISSN: 0301-679X)</p> <p>3. Renewable &amp; Sustainable Energy Reviews (ISI Q1; ISSN: 1364-0321)</p>

4. Tribology Transactions (ISI Q2; ISSN: 1040-2004)
5. Diamond and Related Materials (ISI Q2; ISSN: 0925-9635)
6. Composite Interfaces (ISI Q3; ISSN: 0927-6440)
7. Particulate Science and Technology (ISI Q3; ISSN: 0272-6351)
8. Industrial Lubrication and Tribology (ISI Q4; ISSN: 0036-8792)
9. Indian Journal of Engineering and Materials Sciences (ISI Q4; ISSN: 0971-4588)
10. Journal of Palm Oil Research (ISI Q4; ISSN: 1511-2780)
11. International Journal of Surface Science and Engineering (ISI Q4; ISSN: 1749-7868)
12. Jurnal Teknologi (Sciences & Engineering) (ISI; ISSN: 1877-7058)
13. Jurnal Tribologi (ISI; ISSN: 2289-7232)
14. Tribology Online (Scopus; ISSN: 1881218X)
15. Alexandria Engineering Journal (Scopus; ISSN: 1110-0168)
16. Journal of Mechanical Engineering (Scopus; ISSN: 1823-5514)
17. Materials Research Innovations (ISI; Online ISSN: 1433-075X): Special Issue on 2<sup>nd</sup> Global Conference on Materials Science and Engineering (CMSE 2013)
18. Journal of Mechanical Engineering and Technology (MyCite Indexed; ISSN: 2180-1053).
19. Research on Engineering Structures and Materials (ISSN: 2148-9807)
20. International Conference on Design and Concurrent Engineering (iDECON 2016)
21. International Conference on Advanced Processes & Systems in Manufacturing (APSIM2016)
22. Mechanical Engineering Research Day 2016 (MERD'16) (Google Scholar; ISBN: 9789670257709)
23. Malaysian International Tribology Conference 2015 (MITC2015) (ISI-CPCI; ISBN: 9789671362501)
24. Mechanical Engineering Research Day 2015 (MERD'15) (ISI-CPCI; ISBN: 978-9670257518)
25. Applied Mechanics and Materials (Scopus Indexed; ISSN: 1660-9336): Special Issue on International Conference on Applications and Design in Mechanical Engineering 2015 (ICADME2015)
26. Malaysian Technical Universities Conference on Engineering and Technology 2014 (MUCET2014)
27. Applied Mechanics and Materials (Scopus Indexed; ISSN: 1660-9336): Special Issue on International Conference on Applied Physics and Engineering 2014 (ICAPE2014)
28. Applied Mechanics and Materials (Scopus; ISSN: 1660-9336): Special Issue on International Conference on Applied Physics and Engineering 2014 (ICAPE2014)
29. Procedia Engineering (ISI-CPCI; ISSN: 1877-7058): Special Issue on Malaysian International Tribology Conference 2013 (MITC2013)
30. Applied Mechanics and Materials (Scopus; ISSN: 1660-9336): Special Issue on 3<sup>rd</sup> International Conference and Exhibition on Sustainable Energy and Advanced Material (ICE-SEAM 2013)
31. International Conference on Applied Physics and Engineering 2014 (ICAPE2014)
32. The 4th International Conference on Production, Energy and Reliability (ICPER2014)
33. 4<sup>th</sup> International Graduate Conference on Engineering, Sciences and Humanities (IGCESH2013)
34. 2013 IEEE Student Conference on Research & Development (SCOReD)

#### **Organized Workshops, Meetings, Seminars and Conferences**

1. Chairman – MYTRIBOS Special International Symposium on Energy Aspects of Tribology for Sustainable Development: 16-19 October 2017, Melaka, Malaysia.
2. Co-Chairman – 5<sup>th</sup> International Conference and Exhibition on Sustainable Energy and Advanced Material (ICE-SEAM 2017): 16-19 October 2017, Melaka, Malaysia.



3. International Advisory Committee - International Conference on Applications and Design in Mechanical Engineering (ICADME 2017): 21 – 22 August 2017, Penang, Malaysia.
4. Scientific Committee - 2<sup>nd</sup> Asia Congress on Energy, Environment and Ecology Advances and Developments: 25 – 26 April 2017, Dubai, UAE.
5. Secretariat – Mechanical Engineering Research Day 2017 (MERD'17): 30 March 2017, Melaka, Malaysia.
6. Chairman – 2<sup>nd</sup> Postgraduate Research Symposium in Mechanical Engineering (PRiSME2017): 5 January 2017, Melaka, Malaysia.
7. Secretariat – Innovative Research and Industrial Dialogue 2016 (IRID'16): 20 December 2016, Melaka, Malaysia.
8. International Advisory Panel – International Conference on Advanced Processes & Systems in Manufacturing 2016: 28 – 30 August 2016, Putrajaya, Malaysia.
9. Secretariat – Mechanical Engineering Research Day 2016 (MERD'16): 31 March 2016, Melaka, Malaysia.
10. Scientific Committee - 7<sup>th</sup> International Conference on Tribology in Manufacturing Processes: 28 February - 2 March 2016, Phuket, Thailand.
11. Chairman – Malaysia-Japan International Symposium on Tribology Technology 2016 – Part 2: 5 February 2016, Melaka, Malaysia.
12. Chairman – Postgraduate Research Symposium in Mechanical Engineering 2016 (PRiSME2016): 5 January 2016, Melaka, Malaysia.
13. Chairman - Malaysian International Tribology Conference 2015 (MITC2015): 16 - 17 November 2015, Penang, Malaysia.
14. International Scientific Committee – TURKEYTRIB'15: 7 - 9 October 2015, Istanbul, Turkey.
15. International Advisory Board – International Tribology Conference 2015: 16 - 20 September 2015, Tokyo, Japan.
16. Secretariat - International Conference on Advances in Mechanical Engineering 2015 (ICAME2015): 26 – 27 August 2015, Bali, Indonesia.
17. Program Director – Mechanical Engineering Research Day 2015 (MERD'15): 31 March 2015, Melaka, Malaysia
18. Secretariat - 8<sup>th</sup> Malaysian Technical Universities Conference on Engineering and Technology (MUCET2014): 10 – 11 November 2014, Melaka, Malaysia.
19. Program Director – Workshop on Writing of High Impact Journal: 13 August 2014, Melaka, Malaysia.
20. Secretariat - Malaysian International Tribology Conference 2013 (MITC2013): 18 - 20 November 2013, Sabah, Malaysia.
21. Secretariat - 3<sup>rd</sup> International Conference and Exhibition on Sustainable Energy and Advanced Material (ICE-SEAM 2013): 30 - 31 October 2013, Melaka, Malaysia.

#### **Public services**

1. Committee of “Program Khidmat Masyarakat Latihan Solidworks 2012 - MRSM Tun Ghafar Baba