

Assoc. Prof. Dr. Abdul Adam Abdullah

Your position, e.g. Senior Lecturer / Associate Professor
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Biography

Assoc. Prof. Dr. Abdul Adam Abdullah is a senior lecturer at Faculty of Mechanical Engineering, University Malaysia Pahang. He obtained his PhD in Ecosystem Engineering (Diesel Spray and Combustion) from Graduate School of Advanced Technology and Science, Tokushima University, Japan. His specialized areas are analyzing characteristic of fuel spray injection analysis and advanced fuel combustion analysis. He is the member of professional body such as Society of Automotive Engineers (SAE), Japan Society of Automotive Engineers (JSAE) and The Japan Society of Mechanical Engineers (JSME).

Education Background

2007 – 2010	Doctor of Philosophy <i>Graduate School of Advance Technology and Science, University of Tokushima, Japan</i>
2005 – 2007	M.Eng. in Mechanical Engineering <i>Graduate School of Advance Technology and Science, University of Tokushima, Japan</i>
1991 – 1995	Bachelor in Mechanical Engineering <i>Faculty of Mechanical Engineering, University of Akita, Japan</i>

Career/Academic Appointments

2019 – present	Dean of Innovation & Industry <i>Department of Research & Innovation, Universiti Malaysia Pahang</i>
2010 - present	Senior Lecturer <i>Faculty of Mechanical Engineering, Universiti Malaysia Pahang</i>
2011 – 2019	Director <i>Automotive Engineering Centre (AEC), Universiti Malaysia Pahang</i>

Courses Taught

BMM3513	Heat Transfer
BMM2533	Fluid Mechanics 1
BMM3663	CAE and Failure Analysis,
BMM4733	Power Plant Technology

Professional Affiliation

Board of Engineers Malaysia (BEM)	Graduate Engineer (G1173054A)
Japan Society of Automotive Engineers	

Research Interests

Combustion, Alternative Fuel, Fuel Atomization

Postgraduate Supervision

Level	Name	Title	Status	Role
PhD	Mohd. Kamal bin Kamarulzaman	Combustion Characteristic of Synthetic Additive Blend Biofuel on Internal Combustion Engine	Active	Main Supervisor
PhD	Mohd. Hafiz bin Ali	Investigation of The Effect of Antioxidant Additives on Exhaust Emissions of a Diesel Engine using Biodiesel	Active	Main Supervisor
PhD	Anes G. Mrwan	Analysis of Combustion Characteristic and Engine Performance on Engine Fuelled with Higher Alcohol Biofuels	Active	Main Supervisor
PhD	Mohd. Fahmi bin Othman	Analysis of Combustion Characteristic and Combustion Performance on Diesel Engine Fuelled with Organic Compound	Active	Main Supervisor
MSc	Muhammad Akmal bin Adzmi	Evaluation of combustion characteristics, engine performances and exhaust emissions of diesel engine fueled with nanoparticle-diesel fuel blends	Active	Main Supervisor
MSc	Ang Fuk Chen	Evaluation of Nanoparticle – Diesel Fuel Blends on Diesel Engine Combustion Characteristics and Engine Performances.	Active	Main Supervisor
MSc	Nurul Syuhaida bt. Mohd. Asri	Analysis of Combustion Characteristic and Performance on Diesel Engine Fuelled with Diesel-Organic Germanium Fuel Blends.	Active	Main Supervisor

Research Grants

Title	Type of Grant	Role	Amount (RM)	Status
New formulation of long-chain alcohol-biodiesel B7 fuel blend on diesel engine combustion characteristics, engine performances and exhaust emissions	FRGS	Leader	86,430	Active
Development of Smart Campus Autonomous Vehicle (SCAV)	Flagship UMP	Leader	156,000	Active
Evaluation of Al ₂ O ₃ and SiO ₂ nanoparticles pome biodiesel fuel blends on diesel engine combustion characteristics, performance and exhaust emissions	UMP	Leader	34,500	Active

Journal Publications

- [1] MK Kamarulzaman, M Hafiz, A Adam, AF Chen, OI Awad, "Combustion, performances and emissions characteristics of black soldier fly larvae oil and diesel blends in compression ignition engine", *Renewable Energy*, Vol. 142, (2019) 569-580.
- [2] MK Kamarulzaman, A Adam, "Combustion, performances, and emissions characteristics of *Hermetia illucens* larvae oil in a direct injection compression ignition engine", *Energy Sources A: Recovery, Utilization, and Environmental Effects* 41, 2019 - Issue 12
- [3] M Hafiz, A Adam, M. Hafizil, MK Kamarulzaman, M. Fahmi, "Mitigation of NO_x emission by monophenolic antioxidants blended in POME biodiesel blends", *Greenhouse Gases: Science and Technology* Sept 17, 2019
- [4] S Asri, MF Othman, A Abdullah, Z Abdullah, Z Azmi, "Analysis of Organic Germanium Ge-132 as Cetane Improver in Diesel Combustion Process", *International Journal of Automotive and Mechanical Engineering (IJAME)* Vol.16, No. 1, (2019) 6134-6145
- [5] Effect of Al₂O₃ and SiO₂ metal oxide nanoparticles blended with POME on combustion, performance and emissions characteristics of a diesel engine *IJAME* Vol 16 No 3 (2019): March 2019
- [6] H. Suhaimi, A. Adam, Anes G.Mrwan, Zuhaira Abdullah, M. Fahmi, MK Kamaruzzaman, Ftwi Yohannes Hagos, "Analysis of combustion characteristics, engine performances and emissions of long-chain alcohol-diesel fuel blends", *Fuel*, 220 (2018) 682-691.
- [7] Ang F.Chen, M. Akmal, A. Adam, M. Fahmi, MK Kamaruzzaman, Anes G.Mrwan, "Combustion characteristics, engine performances and emissions of a diesel engine using nanoparticle-diesel fuel blends with aluminium oxide, carbon nanotubes and silicon oxide", *Energy Conversion and Management*, 171 (2018) 461-477.
- [8] Zuhaira Abdullah, Hazrulzurina Suhaimi, A. Adam; M. Firdaus; Anes G Mrwan, "Effect of Pentanol-Diesel Fuel Blends on Thermo-Physical Properties, Combustion Characteristics, Engine Performances and Emissions of a Diesel Engine", *IJAME* Vol 15 No 3 (2018): July-September
- [9] S Asri, M. Fahmi, A. Adam, Zuhaira Abdullah, Z Azmi, "Analysis of Organic Germanium Ge-132 as Cetane Improver in Diesel Combustion Process", *IJAME* Vol 16 No 1 (2019): March 2019
- [10] A. Adam, Nur Atiqah Ramlan, Nur Fauziah Jaharudin, Herzwan Hamzah, M. Fahmi, Anes Abdulla G. Mrwan, "Analysis of combustion characteristics, engine performance and exhaust emissions of diesel engine fueled with upgraded waste source fuel", *International Journal of Hydrogen Energy*, 42 (2017) 17993-18004.
- [11] MF Othman, Abdullah Adam, G. Najafi, R. Mamat, "Green fuel as alternative fuel for diesel engine : A review", *Renewable and Sustainable Energy Reviews*, 80 (2017) 694-709.

Conference Proceedings

- [12] H Zurina, A Adam, GM Anes, Z Abdullah, M Fahmi, M Kamal, FY Hagos, "A comparative analysis on emissions of some next generation long-chain alcohol/diesel blends in a direct-injection diesel engine", *AIP Conference Proceedings*, Vol. 2059, No. 1, (2019) 020053.
- [13] A Mrwan, A Adam, H Suhaimi, Z Abdullah, A Adzmi, "Blending long chain alcohol as a fuel additive with palm oil biodiesel and analysing the effects of blends on combustion characteristics, performances and emissions of a diesel", *AIP Conference Proceedings*, Vol. 2059, No. 1, (2019) 020050
- [14] M. Hafiz, A. Adam, M. Hafizil, "Effect of BHA and BHT antioxidant additives on engine performance and emission of a CI engine fueled with palm oil methyl ester-diesel fuel blend", *AIP Conference Proceedings* 2059, 020051 (2019)
- [15] MF Othman, AA Abdullah, S Asri, Z Azmi, MHM Yasin, Z Abdullah, "A comparative study on performance characteristics of diesel engine fuelled by biodiesel blends with and without Ge-132 additive", *IOP Conference Series: Materials Science and Engineering*, Vol. 469, No. 1, (2019) 012122.
- [16] MF Othman, AA Abdullah, K Kamal, S Asri, Z Azmi, R Mamat, "Improvement of fuel properties for palm oil methyl ester (POME) biodiesel blends using organic germanium as additives", *IOP Conference Series: Materials Science and Engineering*, Vol. 469, No. 1, (2019) 012121.

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- [17] M. Akmal, A. Adam, Afif Naquiuddin, "Combustion Characteristics of Biodiesel Blended With Al_2O_3 and SiO_2 Nanoparticles", AIP Conference Proceedings, Volume 2059, Issue 1
 - [18] Zuhaira Abdullah, A. Adam, Hazrulzurina Suhaimi, M. Akmal, "Impact of diesel-biodiesel-hexanol tri-fuel blends on the combustion and exhaust emissions characteristics of a diesel engine", IOP Conference Series: Materials Science and Engineering, Volume 469