



Assoc. Prof. Dr. Abdul Adam bin Abdullah
Faculty of Mechanical Engineering,
Universiti Malaysia Pahang,
26600 Pekan, Pahang,
MALAYSIA.

Tel: 609-424 6353, Fax: 609-424 6345

Email: adam@ump.edu.my

https://scholar.google.com/citations?user=UOJWa_EAAAAJ&hl=en&oi=sra

Academic Qualification

Ph.D. Ecosystem Engineering , The University of Tokushima, Japan, 2010.

M.Eng. Ecosystem Engineering, The University of Tokushima, Japan, 2007

B.Eng. Mechanical Engineering, Akita University, Japan, 1995

Brief Profile

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 diesel fuel spray and alternative fuel spray injected into diesel engine or optical accessible chamber. 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).

Working Experiences / Appointment

- | | |
|------------------------|--|
| 1. July 2011 – Present | Director of Automotive Engineering Centre (AEC), UMP. |
| 2. Apr 2011 – Present | Senior Lecturer – Faculty of Mechanical Engineering, UMP. |
| 3. Feb 2008 – Mar 2011 | Lecturer – Faculty of Mechanical Engineering, UMP. |
| 4. Mar 2003 – Jan 2008 | Academic Engineer – Faculty of Mechanical Engineering, UMP. |
| 5. Feb 2000 – Feb 2003 | Lecturer – Mechanical Engineering Department, IKIP College Kuantan |
| 6. Dec1995 – Jan 2000 | Design Engineer – NEC Machinery (M) Sdn. Bhd. |

Expert Area

Fuel Spray and Combustion, Engine Performance Analysis, Shadowgraph Photography

Research Interest

Fuel Spray, Alternative Fuel, Combustion, Rapid Compression Machine

Research Project / Grant

1. Performance of Nano Particle Bases Diesel Blends on Combustion Characteristics, Performance and Exhaust Emission (RDU1603107) (**Project Leader**).
2. The Effect of Steam Injection on Power and Emission of Hybrid Air-Diesel Engine Using Steam Injector (FRGS-RDU130134) (**Project Leader**).
3. Investigation on Performance and Emission of Biodiesel/methanol/water blends (RDU1603100) (**Project Leader**).

4. Analysis of Tire Derived Fuel Spray and Combustion Characteristics Inside Optical Accessible Chamber by Using Schlieren Photography Technique (**RAGS**-RDU121418) Amount RM55,000, 2012~2014 (**Project Leader**).
5. Analysis of Diesel and Biodiesel Fuels Spray Characteristics for Clear Spray Images by Using Nano-Spark Shadowgraph Photography Technique (**FRGS**-RDU110113) Amount RM184,800, 2011~2013 (**Project Leader**).
6. Development of Optical Accessible High Pressure Fuel Combustion Chamber for Diesel Fuel and Alternative Fuel Combustion Efficiency Experiment (RDU110308) Amount RM36,500, 2011~2012 (**Project Leader**).
7. Development of New Lubricant Dispersed with Nanoparticles (RDU110336) Amount RM35,000, 2011~2012 (**Project Leader**).
8. Modeling of Human Physiological Implication Towards Whole body Vibration Exposure (RDU1303124) Amount RM20,250, 2012~2015 (**Project Leader**).
9. An Experimental Study of Performance and Exhaust Emission of an Internal Combustion Engine Fuelled with Diesel Fuel and Tire-Diesel Fuel Blend (GRS110363) Amount RM2,500, 2013~2015 (**Project Leader**).
10. Pembangunan Modal Insan ICoE Kluster Automotif (RDU141701) Amount RM18,800, 2014~2015 (**Project Leader**).
11. Fundamental Study Of Jatropa Biodiesel Oil On Ultra-Low Emission Homogeneous Charge Compression Ignition Engine Combustion (FRGS-RDU130131) Amount 115,200, 2013~2016 (Project Member).
12. The Effect of Steam Injection on Power and Emission of Hybrid Air-Diesel Engine Using Steam Injector (FRGS-RDU130134) Amount RM120,500, 2013~2016 (Project Member).
13. Characteristic of Engine Oil with Nano Particle as an Additives (RDU130393) (Project Member).
14. Development of Fuel Testing System on Chassis Dynamometer for Compressed Natural Gas Direct Injection Powered Vehicle (RDU130113) Amount RM35,000, 2013~2014 (Project Member).
15. Enhanced Cylinder Mixture Stratification Method Using Pre-Chamber Fuel Injection System For System Cylinder 4 Stroke Natural Gas Engine Gas (RDU120343) Amount RM36,500, 2012~2014 (Project Member).
16. Combustion Characteristic of Ammonium Per chlorate Base Solid Propellant at High Pressure (**RAGS**-RDU121307) Amount RM48,000, 2012~2014 (Project Member).
17. Combustion Characteristic of Emulsified Biodiesel (**FRGS**-RDU120116) Amount RM75,200, 2012~2014 (Project Member).
18. Experimental Investigation Of Tidal Current Energy Extraction Potential In Kuala Pahang (RDU120318) Amount RM28,000, 2012~2014 (Project Member).
19. Construct the Schlieren Optical Visualization and modelling on image processing technique for flame development and fuel-air mixture formation (**MTUN**-RDU121201) Amount RM12,000, 2012~2014 (Project Member).
20. Electrostatic Charging of Diesel Particulate Matter From Automobile Exhaust Gas (**FRGS**-RDU110112) Amount RM96,200, 2011~2013 (Project Member).
21. Sea Water Scrubber System for Reduction of Diesel Particulate Matter (RDU110318) Amount RM36,000, 2011~2013 (Project Member).
22. Development of High Energetic Material From Renewable Energy Resources (RDU110310) Amount RM32,500, 2011~2012 (Project Member).

23. Design of Portable Solar Assisted Diesel Burner Dryer Using Temperature Gradient PVT and Multidirectional Solar Thermal Collector, (UIA Short Grant EDW B 12-302-0780) Amount RM20,000, 2012~2014 (Project Member).
24. Design and Long Term Performance of 20 Watt Portable Solar Generator, (UIA Short Grant EDW A 11-035-0826) Amount RM5,000, 2011~2012, (Project Member).

Professional Qualification / Membership / Affiliation / Experience

A) Membership of Professional Body

1. Member, Society of Automotive Engineers (SAE)
2. Member, Japan Society of Automotive Engineers (JSAE)
3. Member, Japan Society of Mechanical Engineers, (JSME)

B) As a Journal & Paper Reviewer/ Exhibition

1. Judge Research, Advanced Innovation and Engineering Exhibition (AiNEX 2017)
2. Conference Chairman, Chairperson Parallel Session, Reviewer Conference Papers, Automotive Innovation and Green Energy Vehicle Conference (AIGEV2016)
3. Reviewer Conference Papers, Automotive Innovation and Green Energy Vehicle Conference (AIGEV2014)
4. Reviewer Journal, World Applied Science Journal (WASJ 2013)
5. Judge Research, International Ibn Al-Haytham's Al-Manazir Innovation and Invention Exhibition (InEx 2011)
6. Reviewer Conference Papers, International Conference of Mechanical Engineering Research (ICMER2011)
7. Reviewer Conference Papers, National Conference in Mechanical Engineering For Research & Post Graduate Studies (NCMER 2010)

Teaching Experience

1. **Feb 2015/2016(2)**
BMM3513 Heat Transfer, BMM4912 Final Year Project 2
2. **Sep 2015/2016(1)**
BMM3513 Heat Transfer, BMM4914 Final Year Project 1
3. **Feb 2014/2015(2)**
BMM3513 Heat Transfer, BMM4912 Final Year Project 2
4. **Sep 2014/2015(1)**
BMM3513 Heat Transfer, BMM4914 Final Year Project 1
5. **Feb 2013/2014(2)**
BMM3513 Heat Transfer, BMM4912 Final Year Project 2
6. **Sep 2013/2014(1)**
BMM3513 Heat Transfer, BMM4912 Final Year Project 1
7. **Feb 2012/2013(2)**
BMM3513 Heat Transfer, BMM4914 Final Year Project 2
8. **Sep 2012/2013(1)**
BMM2533 Fluid Mechanics 1, BMM4912 Final Year Project 1
9. **Feb 2011/2012(2)**
BMM2533 Fluid Mechanics 1, BMM1511 Engineering Mechanics Lab 1, BMM4914 Final Year Project 2

10. Feb 2011/2012(1)

BMM2533 Fluid Mechanics 1, BMM4912 Final Year Project 1

11. Dec 2010/2011(2)

BMM3663 CAE and Failure Analysis, BMM4733 Power Plant Technology

12. Jul 2003 ~ Dec 2005

Mechanical Engineering Lab

Post Graduate Supervision

A) PhD Students

1. Anes G. Mrwan (2016-present) Research topic: Analysis of Combustion Characteristic and Engine Performance on Engine Fuelled with Higher Alcohol Biofuels **(Main Supervisor)**
2. Mohd. Fahmi bin Othman (2016-present) Research topic: Analysis of Combustion Characteristic and Combustion Performance on Diesel Engine Fuelled with Organic Compound. **(Main Supervisor)**
3. Mohd. Hafiz bin Ali (2014-present)) Research topic: Experimental Investigation of The Effect of Antioxidant Additives on Exhaust Emissions of a Diesel Engine using Biodiesel **(Main Supervisor)**
4. Mohd. Kamal bin Kamarulzaman ((2015-present) Research topic : Combustion Characteristic of Synthetic Additive Blend Biofuel on Internal Combustion Engine **(Main Supervisor)**
5. Akasyah bin Mohd Khatri (2013-present) Research topic: Modelling of Engine Performance of A Multi Cylinder Diesel Engine. (Co-Supervisor)
6. Che Ku Ihsan bin Che Ku Abdul Satar (2014-present) Research topic: Combustion Characteristic of Emulsified Biodiesel on Multi-cylinder Diesel Engine (Co-Supervisor)
7. Mohd. Herzwan bin Hamzah (2016-present) Research topic: C A Simulation and Experimental Testing on Performance of Turbocharged Diesel Engine Operating with Plastic Derived Fuel (Co-Supervisor)

B) MEng Students

1. Nurul Syuhaida bt. Mohd. Asri (2016-present) Research topic: Analysis of Combustion Characteristic and Performance on Diesel Engine Fuelled with Diesel-Organic Germanium Fuel Blends **(Main Supervisor)**
2. Ang Fuk Chen (2016-present) Research topic: Evaluation of Nanoparticle – Diesel Fuel Blends on Diesel Engine Combustion Characteristics and Engine Performances. **(Main Supervisor)**
3. Hazrulzurina bt. Suhaimi (2016-present) Research topic: Experimental Study of Diesel Engien Combustion Characteristic and Performance using Long Chain Alcohol-Diesel Fuel Blends. **(Main Supervisor)**
4. Nur Fauziah bt. Jaharudin (2012-2015) Research topic: Particulate Matters Emission Control in Diesel Engines using Different Feedstock. **(Main Supervisor)**
5. Nur Atiqah bt Ramlan (2012-2015) Research topic: A Study on Diesel Engine Performance and Exhaust Emission using Waste Cooking Oil **(Main Supervisor)**
6. Mohd Herzwan b. Hamzah (2012-2015) Research topic: An Experimental Study of Performance and Exhaust Emission of An Internal Combustion Engine Fuelled with Diesel Fuel and Tire-Diesel Fuel Blends. **(Main Supervisor)**
7. Najmim Haziq bin Badrulhisam (2014-present) Research topic: Combustion Anaylsis on Gasoline Engine Fuelled with Metallic Fuel Additives (Field Supervisor)

Degree / Final Year Supervision

1. Mohd. Akmal bin Adzmi (2017) Thesis title : Evaluation of Combustion Characteristic, Performance and Exhaust Emissions on Diesel Engine fueled with Nanoparticle-Diesel Fuel Blends
2. Siti Norhidayah binti Samsuri (2017) Thesis title : The Study of Combustion Characteristics, Performance and Emission on Diesel Engine Fuelled with Higher Alcohol Biofuels
3. Zuhaira binti Abdullah (2017) Thesis title : The Study of Emission, Combustion Characteristics and Performance on Water in Diesel Emulsion Fuel
4. Mohd. Syahir Syahmi bin Hassan (2017) Thesis title : Analysis of Combustion Characteristics and Combustion Performance on Diesel Engine Fuelled with Organic Compound
5. Muhammad Firdaus Bin Taufik Suhaimi (2016) Thesis title : Effect Of Compression Ratio On Pressurized Air Inside Combustion Chamber Using Rapid Compression Machine
6. Nurul Syuhaida binti Mohd. Asri (2016) Thesis title : The Study on Compression Ignition Engine Performance Fuelled with Organic Germanium Blended Fuel
7. Ang Fuk Chen (2016) Thesis title : The Effect of Organic Germanium Blended Fuel on Emission
8. Muhammad Farhan Bin Mohd. Nasir (2015) Thesis title: Development of diesel fuel injector using Arduino microcontroller
9. Muhamad Aiman Bin Omar (2015) Thesis title: Analysis of diesel spray characteristic at high pressure injection and ambient temperature
10. Muhammad Hafizuddin Bin Radzuan (2015) Thesis title: A study on the combustion performance of emulsified fuel in a single cylinder diesel engine
11. Raja Imran Shah Bin Raja Badrin Shah (2015) Thesis title: A Study on NO_x and Particulate Matter in diesel emulsified fuel combustion with different surfactant
12. Mohd Fadli Fikri b. Mahadi (2014) Thesis title: A Study On Various Type Of Nozzle For Diesel Injector Unit
13. Ahmad Adlan b. Abdul Rashid (2014) Thesis title: Development Of Various Type Of Piston Head For Single Cylinder Diesel Engine
14. Amirul Azzadin b. Lizan (2014) Thesis title: A Study of piston movement inside Rapid Compression Machine using Inert Gas
15. Mohd Haniff b. Mohd Shariff (2014) Thesis title: Flow analysis of squish type single cylinder diesel piston head
16. Mohd Rafizi b. Salimin (2014) Thesis title: Development Of Controller For Diesel Engine Injector Timing
17. Mohd. Affendi Bin Ibrahim (2013) A Study on Various Type of Rotor Disc Brake using FEA Analysis
18. Ahmad Aizuddin Faiz bin Che Jaafar (2013) A Study of The Spray Characteristics for Valve Covered Orifice
19. Mohd Khairi Bin Mohammad (2013) Analysis Of A Spur Gear In Automotive System Using Finite Element Software
20. Khalifaturrahim Bin Ab Rahman (2013) Experimental Study Of Alternative Fuel Performance Operating In Single Cylinder Diesel Engine
21. Mohammad Shafei Bin Ramli (2013) Experimental Study Of Diesel Fuel Performance Operating In Single Cylinder Diesel Engine
22. Mohd. Firdaus b. Kamarudin (2012) Thesis title: Analysis of Emulsion Fuel Spray Characteristics using Optical Accessible Spray Chamber.
23. Adam Mohd. Izhan b. Noor Azam (2012) Thesis title: A Comparison Study of Liquid and Vapor Phase Development at Spray Boundary of Diesel Spray, BDF and SVO Spray.

24. Che Hanisah bt. Yaacob (2012) Thesis title: Analysis of Emulsion Fuel Spray Characteristics using Sac Nozzle and VCO Nozzle.
25. Nor Syamsul Syazwan b. Mohd. Nuji (2012) Thesis title: Analysis of Diesel Spray Characteristics at High Pressure Injection.
26. Mohd. Fazwan b. Ishak (2012) Thesis title: Analysis of Diesel Spray Characteristics using Multi Holes Sac Nozzle and VCO Nozzle.

List of Publications

Journals (5 years recent publications)

1. Abdullah Adam, Nur Atiqah Ramlan, Nur Fauziah Jaharudin, Herzwan Hamzah, Mohd Fahmi Othman, 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, Available online 27 April 2017
2. MF Othman, Abdullah Adam, G. Najafi, R. Mamat, "Green fuel as alternative fuel for diesel engine : A review", Renewable and Sustainable Energy Reviews, Volume 80, Dec 2017, Pages 694-709
3. A. Vasu, F.Y. Hagos, Abdullah Adam, M.M. Noor, R. Mamat, W.H. Azmi, T.K. Ibrahim, "Corrosion effect of phase change materials in solar thermal energy storage application", Renewable and Sustainable Energy Reviews, Volume 76, Sep 2017, Pages 19-33.
4. F.Y. Hagos, Obed M. Ali, Abdullah Adam, R. Mamat, "Effect of emulsification and blending on the oxygenation and substitution of diesel fuel for compression ignition engine", Renewable and Sustainable Energy Reviews, Volume 75, Aug 2017, Pages 1281-1294..
5. Omar I. Awad, Obed M. Ali, R. Mamat, I.M. Yusri, A.F. Yusop, Abdullah Adam, M.M. Noor, "The effect of adding fusel oil to diesel on the performance and the emissions characteristics in a single cylinder CI engine", Journal of the Energy Institute, Volume 90, Issue 3, June 2017, Pages 382-396.
6. Omar I. Awad, Obed M. Ali, R. Mamat, Abdullah Adam, MF. Othman, "Experimental Study of Performance and Emissions of Fusel Oil-Diesel Blend in a Single Cylinder Diesel Engine', International Journal of Engineering and Technology, Apr 2017, Pages 138-142.
7. Omar I. Awad, Obed M. Ali, R. Mamat, Abdullah Adam, G. Najafi, M.K. Kamarulzaman, I.M. Yusri, M.M. Noor, "Using Fusel Oil as a Blend in Gasoline to Improve SI Engine Efficiencies: A Comprehensive Review", Renewable and Sustainable Energy Reviews, Volume 69, March 2017, Pages 1232-1242.
8. Z. Syafiq, Abdullah Adam, Omar I. Awad, M.F. Othman, "The Study of Stability, Combustion Characteristics and Performance of Water in Diesel Emulsion Fuel", Matec Web Conf, Volume 90, 2017
9. Z. Syafiq, Abdullah Adam, N. Syuhaida, M.F. Othman Diesel engine performance and exhaust emission analysis using diesel-organic germanium fuel blend", Matec Web Conf, Volume 90, 2017
10. H.M. Mahmudul, F.Y. Hagos, R. Mamat, Abdullah Adam, W.F.W. Ishak, R. Alenezic "Production, characterization and performance of biodiesel as an alternative fuel in diesel engines–A review", Renewable and Sustainable Energy Reviews, Volume 72, May 2017, Pages 497–509
11. Obed M. Ali, Rizalman Mamat, Abdullah Adam, Nik R. Abdullah, "Analysis of blended fuel properties and engine performance with palm biodiesel–diesel blended fuel", Renewable Energy, Volume 86, February 2016, Pages 59–67

12. Obed M. Ali, R. Mamat, Abdullah Adam, N. R. Abdullah, "Analysis of blended fuel properties and engine performance with palm biodiesel–diesel blended fuel", *Renewable Energy*, Volume 86, Feb 2016, Pages 59-67.
13. Obed M. Ali, R. Mamat, Abdullah Adam, H.H Masjuki, "Analysis of blended fuel properties and cycle-to-cycle variation in a diesel engine with a diethyl ether additive", *Energy Conversion and Management*, Volume 108, Jan 2016, Pages 511-519.
14. Amir Khalid, N. Jaat, A. Sapit, A. Razali, Bukhari Manshoor, Izzuddin Zaman, Abdul Adam Abdullah "Performance and emissions characteristics of crude jatropha oil biodiesel blends in a diesel engine", *International Journal of Automotive and Mechanical Engineering (IJAME)*, 11 (2015) . pp. 2447-2457.
15. Obed M. Ali, R. Mamat, Abdullah Adam, N. R. Abdullah, "Analysis of Blended Fuel Properties and Engine Cyclic Variations with Ethanol Additive", *Journal of Biobased Materials and Bioenergy*, Volume 9, No 2, April 2015, Pages 108-114.
16. M.H. Hamzah, Abdullah Adam, A. Sudrajat, N. A. Ramlan, N. F. Jaharudin, "Analysis of Combustion Characteristics of Waste Plastic Disposal Fuel (WPDF) and Tire Derived Fuel (TDF)", *Applied Mechanics and Materials*, Volume 773-774, 2015, Pages 600-604.
17. M.H. Hamzah, Abdullah Adam, R. Mamat, N. A. Ramlan, N. F. Jaharudin, "Evaluation of Diesel Engine Performance and Exhaust Emission Characteristics Using Waste Cooking Oil", *Applied Mechanics and Materials*, Volume 773-774, 2015, Pages 425-429.
18. M.H. Hamzah, Abdullah Adam, R. Mamat, N. A. Ramlan, N. F. Jaharudin, "Study on Particulate Matter of Diesel Engine Using Waste Cooking Oil", *Applied Mechanics and Materials*, Volume 773-774, 2015, Pages 420-425.
19. Abdullah Adam, Mamat Rizalman, Tomoaki Yatsufusa, "Analysis of Diesel Spray Droplets Behavior using Shadowgraph Technique Images", *International Journal of Materials, Mechanics and Manufacturing*, Volume 3, No. 1, 2015, Pages 60-64.
20. R. Mamat, M.Y. Hafizil, Abdullah Adam, A. Aziz, A.F. Yusop, "Analysis of Blended Fuel Properties and Engine Cyclic Variations with Ethanol Additive", *Journal of Biobased Materials and Bioenergy*, Volume 7, No. 4, 2015, Pages 457-460.
21. M. Herzwan, Abdullah Adam, Agung Sudrajad, R. Mamat, Nur Atiqah, Nur Fauziah, "Performance of Diesel Engine Operating With Waste Plastic Disposal", *Journal of Applied Mechanics and Materials*, Volume 465-466, 2014, Pages 423-427.
22. Amir Khalid, M.D Anuar, M. Fies, B. Manshoor, Zaman, Abdullah Adam, R. Mamat, "Analysis of Mixture Formation and Flame Development in Biodiesel Burner Combustion Using Direct Optical Visualization Technique", *Journal of Applied Mechanics and Materials*, Volume 663, 2014, Pages 8-12,.
23. Obed M. Ali, Talal Yusaf, Abdullah Adam, N.R. Abdullah, R. Mamat, "Influence of Chemical Blends on Palm Oil Methyl Ester' Cold Flow Properties and Fuel Characteristics", *Energies*, Volume 7, No. 7, 2014, Pages 4364-4380.
24. A. Fitri, M. Hafizil, R. Mamat, Abdullah Adam, A. Aziz, "Comparative Study of Particulate Matter (PM) Emissions in Diesel Engine using of Diesel-Methanol Blends", *Journal of Applied Mechanics and Materials*, Volume 465-466, 2014, Pages 1255-1261.
25. Suhaimi, A. Aziz, N.R. Abdullah, Abdullah Adam, R. Mamat, "Investigation of Intake Flow Rate and Swirl Motion of SI Engine", *Journal of Applied Mechanics and Materials*, Volume 465-466, 2014, Pages 409-417.
26. Amir Aziz, Mamat Rizalman, Abdullah Adam, "Effect of Water Content and Tween 80 to the Stability of Emulsified Biodiesel", *Journal of Applied Mechanics and Materials*, Volume 465-466, 2014, Pages 191-195.

27. Obed M. Ali, R. Mamat, Abdullah Adam, N.R. Abdullah, "Effects of Blending Ethanol with Palm Oil Methyl Esters on low Temperature Flow Properties and Fuel Characteristics", International Journal of Advanced Science and Technology, Volume 59, 2013, Pages 85-96.
28. Nur Fauziah, Abdullah Adam, A. Fitri, M. Herzwan, R. Mamat, Nur Atiqah, "Study on Particulate Matter (PM) Emission of Diesel Engine using Palm Oil Methyl Ester", Journal of Applied Mechanics and Materials, Vol. 465-466, 2013, Pages 433-437.
29. Nur Atiqah, Abdullah Adam, M. Herzwan, R. Mamat, Nur Fauziah, "Analysis of Diesel Engine Performance Fueled with Waste Cooking Oil", Journal of Applied Mechanics and Materials, Volume 465-466, 2013, Pages 418-422.
30. R. Mamat, Rafidah Rahim, Abdullah Adam, A. Aziz, N.R. Abdullah, "Characteristic of Biodiesel Fuel Derived from Palm Oil", Journal of Biobased Materials and Bioenergy, Volume 7, No. 4, 2013, Pages 457-460.
31. R. Mamat, A.F. Yusop, Abdullah Adam, A. Aziz, N.R. Abdullah, "Effect of EGR and Air Temperature on Exhaust Emission of a Diesel Engine Operating with Biodiesel", Journal of Biobased Materials and Bioenergy, Volume 7, No. 4, 2013, Pages 461-463.
32. Rafidah Rahim, R. Mamat, Abdullah Adam, M.Y. Taib, , "Influence of Fuel Temperature on A Diesel Engine Performance Operating with Biodiesel Blended", International Journal of Advanced Science and Technology (IJAST), Vol. 43, July 2012, Pages 115-126.
33. Abdullah Adam, R. Mamat, Nur Atiqah, Yoshiyuku Kidoguchi, Azran Zafri, "Analysis of Straight Vegetable Oil (SVO) Spray Characteristics at End of Injection (EOI)", Journal of Medical and Bioengineering, Volume. 1, No. 1, 2012, Pages 58-61,

List of Consultancy

1. ZF Steering components defect test – DRB Hicom Diecasting
2. Shock Absorber Testing on The Road within Daily Usage – SAPURA Technical Centre Sdn. Bhd. (UCT110131)
3. Electric Bus 1 Malaysia – Sync R&D Sdn. Bhd.
4. Acoustic Test inside Room Covered with Kevlar – Univ. Putra Malaysia

Awards / Research / Achievements

1. Chairman/ Exhibition Jury of Advanced Innovation & Engineering Exhibition 2017 (AiNEX 2017)
2. Chairman/ Chairperson Parellel Session of Automotive Innovation and Green Energy Vehicle Conference 2016 (AIGEV 2016)
3. Chairman of Advanced Innovation & Engineering Exhibition 2015 (AiNEX 2015)
4. Chairman of Automotive Innovation and Green Energy Vehicle Conference 2014 (AIGEV 2014)
5. ITEX Gold Medal, 22nd International Invention, Innovation and Technology Exhibition (ITEX), 20-22 May 2011.
6. Association of Polish Inventors & Rationalizers, 22nd International Invention, Innovation and Technology Exhibition (ITEX), 20-22 May 2011.
7. 1st Prize Commercial Potential Award, IIUM Research, Invention and Innovation Exhibition (IRIIE), 9-10 February 2011.
8. IRIIE Silver Award, IIUM Research, Invention and Innovation Exhibition (IRIIE), 9-10 February 2011.
9. International Exchange Student Research Award, PhD Student, Graduate School of Advanced Technology and Science, The University of Tokushima, September 2010.

10. Best Paper Award, 15th Small Engine Technology Conference (SETC) / Society of Automotive Engineering (SAE) International Conference, 2009.
11. International Exchange Student Research Award, Master Student, Graduate School of Advanced Technology and Science, The University of Tokushima, September 2007.
12. Best Presenter Award, Faculty of Ecosystem Engineering Poster Presentation, Graduate School of Engineering, The University of Tokushima, 2006.