IDRIS SAAD

Updated: May 2016

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https://scholar.google.com/citations?user=zb5lmTIAAAAJ&hl=en

EDUCATION

University of South Australia, AUSTRALIA

2015 – PhD. in Mechanical Engineering

"Effect of Guide Vanes on the Performance of a Diesel Engine Running with Higher Viscous Fuels"

Universiti Teknologi Malaysia, MALAYSIA

2004 – Master of Engineering (Mechanical)

"Experimental Investigation on the Performance of Non-axisymmetric Car Radiator Fan"

Universiti Teknologi MARA, MALAYSIA

2001 - B.Eng. (Hons.) in Mechanical Engineering

Politeknik Kota Bharu, MALAYSIA

1998 – Diploma in Mechanical Engineering (Technology of Automotive & Diesel)

CURRENT ACADEMIC POSITION

Senior Lecturer: 2009 – till date Faculty of Mechanical Engineering, UiTM, MALAYSIA

WORKING EXPERIENCES

Lecturer: 2004 – 2009 Faculty of Mechanical Engineering, UiTM, MALAYSIA

Teaching Assistant (Part time): 2010 – 2014 School of Engineering, UniSA, AUSTRALIA

Junior Lecturer (Contract): 2001 – 2002 Faculty of Mechanical Engineering, UiTM, MALAYSIA

Junior Engineer: 2001 Advanced Disk Technology (M) Sdn. Bhd., Kulim Hi-Tech Park, Kedah, MALAYSIA

AREAS OF INTEREST

- □ Energy Sustainability
- □ Automotive Engineering
- □ Internal Combustion Engine
- □ Alternative Fuels
- □ Waste Heat Recovery
- Engineering Education
- □ Computational Fluids Dynamics

POST-GRADUATE SUPERVISION

Completed PhD Supervision

1. -none-

On-going PhD Supervision

1. -none-

Completed Master Supervision

1. -none-

On-going Master Supervision

 Faizal Amri bin Mohd Sani (Msc. In Engineering Management) 2016, "Behaviour and Emissions Characteristics of a Small Gasoline Engine" – <u>Co-Supervisor</u>

RESEARCH FUNDING

Completed

- Ramzyzan Bin Ramly, <u>Idris Bin Saad</u> and Valliyapan David A/L Natarajan; "Performance Analysis of a Frictionless Inertia Torque Device for Automotive Transmission"; (Ref: 600-IRDC/ST.5/3/1049); RM14000.00; 1st November 2005 to 31 October 2006.
- Zuraidah Binti Salleh, Nor Amalina Binti Nordin and Idris Bin Saad; "Comparison of Mechanical Properties for Plypropylene (PP) Laminated on Fiberglass/Epoxy Resin and Aluminum Net/Epoxy Resin Composites"; (Ref: 600-IRDC/ST/.5/3/1263); Registered without funding.

On-going

 Nik Rosli Bin Abdullah, Aman Mohd Ihsan Bin Mamat, <u>Idris Bin Saad</u>, Helmisyah Bin Ahmad Jalaludin and Baljit Singh A/L Bhathal Singh; "Combustion and flame speeds Analysis on higher-lower molecular weight alcohols"; (Ref: FRGS/1/2015/TK10/UITM/02/6); RM130200.00; 2nd November 2015 to 1st November 2017.

REVIEW/EXAMINER/PANEL ACTIVITIES

- <u>Reviewer</u> of Technical Paper(s) Submitted to Journal Teknologi (Special Issue on Energy & Environment 76 No. 5), 2015.
- <u>Reviewer</u> of Technical Paper(s) Submitted to Journal Teknologi (Special Issue on Advances in Aerospace & Automotive 75 No. 8), 2015.
- <u>Reviewer</u> of 2015 International Conference on Advances in Mechanical Engineering (ICAME 2015).
- 4. <u>Panel</u> Temuduga Calon Siswazah Sesi Pertama bagi Program "Master in Engineering Management" (EM704) kemasukan Mac 2016.
- 5. <u>Panel</u> Penilai Pelajar yang Menjalani Latihan Industri Sesi 2015.
- <u>Panel</u> Penilai dan Pemeriksa Kedua Kertas Soalan Peperiksaan Tahun 2015/2016 FKM – UiTM Shah Alam (KJM442 – Heat and Fluid).

CONSULTATION

1. Engine Testing Module, 2014

LIST OF PUBLICATIONS

PUBLICATIONS FOR 2016

 Bari, S. and <u>Saad, I.</u>, Simulation and experimental investigation of guide vane length to improve the performance of a diesel engine run with biodiesel. Journal of Engineering for Gas Turbines and Power, 2016. 138(11): p. 112804.

PUBLICATIONS FOR 2015

- Bari, S. and <u>Saad, I.</u>, Experimental Investigation of Adding Vanes into the Air Intake Runner of a Diesel Engine Run on Biodiesel to Improve the Air-Fuel Mixing. in ASME 2015 International Mechanical Engineering Congress and Exposition. 2015. American Society of Mechanical Engineers.
- 2. <u>Saad, 1</u>. and S. Bari, Investigation of Guide Vane Swirl and Tumble Device to Improve In-Cylinder Air Flow for Compression Ignition Engine Running With Biodiesel. Jurnal Teknologi, 2015. 75(8).
- 3. Bari, S. and <u>Saad, I.</u>, Performance and emissions of a compression ignition (CI) engine run with biodiesel using guide vanes at varied vane angles. Fuel, 2015. 143: p. 217-228.
- Bari, S. and <u>Saad, I.</u>, Optimization of vane numbers through simulation and experiment, and investigation of the effect on the performance and emissions of a Cl (compression ignition) engine run with biodiesel. Energy, 2015. 79: p. 248-263.

PUBLICATIONS FOR 2014

- <u>Saad, I.</u> and S. Bari, CFD Investigation of In-Cylinder Air Flow to Optimize Number of Guide Vanes to Improve CI Engine Performance using Higher Viscous Fuel. International Journal of Automotive & Mechanical Engineering (IJAME), 2014. 8(July - December 2013): p. 1096-1107.
- 2. Bari, S. and <u>Saad, I.</u>, Performance and Emissions of a Compression Ignition (CI) Engine Run With Biodiesel Using Guide Vanes at Varied Vane Angles. Fuel, 2014(0).
- Bari, S. and <u>Saad, I.</u>, Optimization of Vane Numbers through Simulation and Experiment, and Investigation of the Effect on the Performance and Emissions of a CI (Compression Ignition) Engine Run with Biodiesel. Energy, 2014(0).
- Bari, S. and <u>Saad, I.</u>, Effect of Guide Vane Height on the Performance and Emissions of a Compression Ignition (CI) Engine Run with Biodiesel through Simulation and Experiment. Applied Energy, 2014. 136: p. 431-444
- 5. Bari, S. and <u>Saad, I.</u>, Optimized Number of Intake Runner Guide Vanes to Improve In-Cylinder Airflow Characteristics of CI Engine Fuelled by Higher Viscous Fuels. 2014, SAE Technical Paper.

PUBLICATIONS FOR 2013

- <u>Saad, I.</u>, S. Bari, and S.N. Hossain, In-Cylinder Air Flow Characteristics Generated by Guide Vane Swirl and Tumble Device to Improve Air-Fuel Mixing in Diesel Engine Using Biodiesel. Procedia Engineering, 2013. 56(0): p. 363-368.
- 2. <u>Saad, 1</u>. and S. Bari. Effect by Guide Vane Swirl and Tumble Device to Improve the Air-fuel Mixing of Diesel Engine Running with Higher Viscous Fuels. in ASME 2013 International Mechanical Engineering Congress &

- 3. <u>Saad, 1</u>. and S. Bari, Optimize Vane Length to Improve In-Cylinder Air Characteristic of CI Engine Using Higher Viscous Fuel. Applied Mechanics and Materials, 2013. 393: p. 293-298.
- 4. <u>Saad, I</u>. and S. Bari, Improving Air-Fuel Mixing in Diesel Engine Fuelled by Higher Viscous Fuel using Guide Vane Swirl and Tumble Device (GVSTD), in SAE 2013 World Congress & Exhibition. 2013, SAE: Detroit, Michigan, USA.
- 5. Bari, S. and <u>Saad, I.</u>, CFD Modelling of the Effect of Guide Vane Swirl and Tumble Device to Generate Better In-cylinder Air Flow in a CI Engine Fuelled by Biodiesel. Computers & Fluids, 2013. 84: p. 262-269.

PUBLICATIONS FOR 2012

- <u>Saad, I.</u>, S. Bari, and S.N. Hossain. Optimum Height of Guide Vane to Improve In-Cylinder Air Flow in CI Engine Operated with Biodiesel. in 1st Biannual International Conference on Powertrain Modelling and Control (PMC2012). 2012. West Yorkshire, UK: University of Bradford.
- Hossain, S.N., S. Bari, and <u>Saad, I</u>., Waste Heat Recovery from a Diesel Engine using Ammonia as the Working Fluid. in The 5th BSME International Conference on Thermal Engineering. 2012. Dhaka, Bangladesh: Bangladesh Society of Mechanical Engineers.
- Hossain, S.N., S. Bari, and <u>Saad, 1</u>., Effect of Different Working Fluids on Shell and Tube Heat Exchanger to Recover Heat From Exhaust of a Diesel Engine Generator Set. in 1st Biannual International Conference on Powertrain Modelling and Control (PMC2012). 2012. West Yorkshire, UK: University of Bradford.

PUBLICATIONS FOR 2011

 <u>Saad, I</u>. and S. Bari. Effects of Guide Vane Swirl and Tumble Device (GVSTD) to the Air Flow of Naturally Aspirated CI Engine. in International Conference on Mechanical Engineering 2011 (ICME2011). 2011. Dhaka, Bangladesh: Progressive Printers Pvt. Ltd.

A W A R D S

- Best Presenter Award at the 2015 International Conference on Advances in Mechanical Engineering (ICAME 2015): Investigation of Guide Vane Swirl and Tumble Device to Improve In-Cylinder Air Flow for Compression Ignition Engine Running With Biodiesel.
- 2. Myra Reachout Consultation/Income Generation Award for year 2014, Fakulti Kejuruteraan Mekanikal, UiTM, Shah Alam.

EXPERIENCE & ACHIEVEMENT HIGHLIGHTS

1. Co-Chairperson, 2015 International Conference on Advances in Mechanical Engineering (ICAME 2015).