

Curriculum Vitae



**Universiti
Malaysia
PAHANG**
Engineering • Technology • Creativity



Mohd Yusof bin Taib

Lecturer

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Academic Qualifications

M.Eng. (Mechanical), UTM, 2005

B. Eng (Hons) Mechanical, Universiti Teknologi Malaysia 2001.

Dip. Mechanical Engineering, Universiti Teknologi Malaysia 1998.

Brief Profile

Currently, M. Y. Taib is a lecturer at Faculty of Mechanical Engineering in Universiti Malaysia Pahang since 2005. He graduated from University Technology Malaysia with Master of Mechanical Engineering in 2005 and first degree in Mechanical Engineering in 2001 from the same university. He was worked as Research Assistant in Compressor Refrigeration from May 2001 until April 2002 at University Technology Malaysia. He has shown vast interest in Thermofluid, Design, Strength of Materials and Automotive research area. He is a member of ASHRAE, Board of Engineers Malaysia and International Association of Engineers International. In faculty, he has involved with management, research and consultation work on energy.

Working Experiences / Appointment

1. May 2008~ May 2010: Department Head (Mechanical Engineering) FKM, Universiti Malaysia Pahang.
2. March 2005~ to date: Lecturer, Faculty of Mechanical Engineering (FKM), Universiti Malaysia Pahang.
3. April 2003~ March 2005: Tutor, Faculty of Mechanical Engineering (FKM), Universiti Malaysia Pahang.
4. May 2001~ April 2002: Research Assistant, University Technology Malaysia, Skudai Johor.
5. March 1998~Jun 1999: Technician, Sobena Offshore Inc. Sdn. Bhd. Kemaman, Terengganu.

Expert Area

Design work of any high precision rotating machines such as positive displacement compressor to be applied either in refrigeration system or air compressor. Ventilation system, of Air Conditioning and Refrigeration system, hydrodynamic machineries and fluids mechanic. Heat transfer, heat exchanger and building thermal comfort.

Research Area / Research Interest

Thermo-Fluid Engineering, Automotive Air Conditioning System, Applied and Computational Mechanics and Power Generation.

Professional Qualification / Membership / Affiliation / Experience

A) Membership of Professional Body

1. ASHRAE Member (ID: 8218866 Since JULY 2012)
2. Graduate Engineer, Board of Engineer, Malaysia (BEM No. 54545R)
3. Member, International Association of Engineers (IAENG No. 101807)
4. Accredited Level: LLT4 – Construction Trainer/Lecturer, Construction Industry Development Board, Malaysia Green Card, (CIDB No. C81230320090066), since 2009.

B) Administrative Committees Involved

1. Committee Member: Task Force: Academic Performance CQI, November 2010-October 2011.
2. Teaching Observer for FKM, Sem. 2 2010/2011.
3. Reviewer for International Conference on Advanced Manufacturing (ICAM 2011).
4. Reviewer for International Conference on Chemical Innovation (ICCI 2011).
5. Committee Member: Task Force for Marine Engineering Program, November 2010 – October 2011
6. Reviewer for 2nd National Conference in Mechanical Engineering for Research & Post Graduate Student (2nd NCMER) 2010
7. Member of Technical Committee (Paper Review) for 2nd National Conference in Mechanical Engineering for Research & Post Graduate Student (2nd NCMER) 2010
8. Head of Technical Committee (Proceeding & Journal Publication) for 2nd National Conference in Mechanical Engineering for Research & Post Graduate Student (2nd NCMER) 2010
9. Member, Task Force: Open Ended Laboratory, 1 April 2010 – to date
10. Jawatankuasa Task Force Alumni Survey, 2010
11. Task force: Pemurnian struktur kurikulum kepada 16 kredit maksima per-semester, FKM, 1 Feb 2010 – 31 July 2010
12. Jawatankuasa Task Force Penyediaan Dokumen untuk Program Model Jerman (Automotif), 1 Jan 2010 – 31 Dec 2010
13. Member of Technical Committee (Proceeding) for “National Conference in Mechanical Engineering for Research & Post Graduate Student (NCMER) 2010
14. Head of Technical Committee (Paper Review) for “National Conference in Mechanical Engineering for Research & Post Graduate Student (NCMER) 2010
15. Jawatankuasa Pelaksana “Syarahan Umum Perlantikan Professor” di Fakulti Kejuruteraan Mekanikal, 01 Dec 2009 – 1 April 2010
16. Reviewer for International Journal of Automotive and Mechanical Engineering, University Malaysia Pahang, since 2009
17. Reviewer for National Conference of post Graduate Research 2009
18. Reviewer for Malaysian Technical Universities Conference on Engineering and Technology 2009
19. Member for Task Force Committee, MS ISO 9001:2000 (Pengajaran & Pembelajaran, 03 Feb 2009 – 03 Feb 2010
20. Technical Committe FKM, 01 Feb 2009 – 31 Jan 2010
21. Panel Evaluation for Research Grant, 10 Mar 2009 – 10 Mar 2010
22. Jawatankuasa Pelaksana Mesyuarat Panel Penasihat Industri dan Pemegang Taruh, 01 Mar 2009 – 31 Mar 2010
23. Leader, Self Assessment Report Document for EAC Accreditation, Jan 2009.
24. Member, FKM APEX15 Committee, (2008 to date)
25. Member, 2009 FKM Stakeholders Committee Meeting, (Dec'08~Mar'09)
26. Member, FKM ISO9001 Committee, (2008 to date)
27. Member, 2009 FKM Industrial Advisory Panel Committee Meeting, (Dec'08~Mar'09)
28. Leader, 2009 FKM EAC Task Force for BMM Accreditation, Nov'08~Jul'09.
29. Leader, FKM EAC Task Force for OBE Transformations. (Sept'08 to date)
30. Member, 2008 FKM EAC Task Force for BMA and BMF Accreditation, Nov'07~Jul'08.
31. Member, JK Penganugerahan Fakulti, Mar'08 to date.
32. Member, Faculty Research and Postgraduate Committee, Jan'08 to date.
33. Member, Faculty Interviewer Committee, May'08 to date.
34. Member, Faculty Technical Committee (JKTF), May'08 to date.
35. Coordinator, Automotive Eng. Dept. Examination, Apr'07 to Dec'07.
36. Member, FKM EAC Task Force for BMM Accreditation, Apr'07~Aug'07.
37. Member, Faculty Academic and Examination Committee, Apr'07 to March 2008.
38. Chairman, Mechanical Engineering Department Meeting. May'08 to April 2010.

39. Leader, Thermodynamics, Heat Transfer and Fluid Mechanic Laboratory setup. Jul'04 to Sept'06.
40. Member, Academic Clinic MechaPro Committee, Jul'08 to date.

Teaching Experience

1. FEB 2011/2012
BMM 4733 Power Plant Technology (61 students)
BMM 3521 Engineering Fluid Mechanic Lab (90 students)
2. SEPT 2011/2012
BMM 4733 Power Plant Technology (61 students)
BMM 3521 Engineering Fluid Mechanic Lab (90 students)
3. DEC 2010/2011
BMM 1821 Mechanical Laboratory 2 (30 students)
BMM 2543 Fluid Mechanics 2 (50 students)
4. JUL 2010/2011
BMM 1811 Mechanical Laboratory 1 (60 students)
BMM 3513 Heat Transfer (47 students)
5. DEC 2009/2010
BMM 3531 Eng. Thermodynamics Lab (90 students)
BMM 2523 Thermodynamics 2 (90 Students)
BMM 4733 Power Plant Technology, 3 Credits (72 Students)
6. JUL 2009/2010
BMM 4733 Power Plant Technology, 3 Credits (54 Students)
BMM 4924 Final Year Project 2 (5 Students)
BMM 3531 Engineering Thermodynamics Lab (3 Students)
7. MAY 2008/2009
DMM 2513 Solid Mechanics, 3 credits (15 Students)
8. DEC 2008/2009
BMM3531 Engineering Thermodynamics Lab (175 Students)
BMM3912 Final Year Project 1 (5 Students)
BMM4999 Industrial Training (9 students)
BMM4993 Industrial Training Report (9 students)
9. JUL 2008/2009
BMM4733 Power Plant Technology (54 Students)
BMM3521 Engineering Fluids Mechanic Lab (60 Students)
BMM4924 Final Year Project 2, (5 Students)
BMM4999 Industrial Training (7 students)
BMM4993 Industrial Training Report (7 students)
10. MAY 2007/2008 (Short Semester)
BMM2543 Fluids Mechanics 2 (15 Students)
11. DEC 2007/2008
BMM4733 Power Plant Technology (32 Students)
BMM3912 Final Year Project 1, (5 Students)
BMM4999 Industrial Training (11 students)
BMM4993 Industrial Training Report (7 students)
12. JUL 2006/2007
BMM2533 Fluids Mechanic 1 (225 Students)
BMM4924 Final Year Project 2 (5 Students)
BMM2011 Occupational Safety & Health (225 Students)

13. MAY 2005/2006 (Short Semester)
BMM2523
14. DEC 2005/2006
BMM2523 Fluid Mechanics 2 (210 Students)
BMM3912 Final Year Project 1, (5 Students)
15. JUL 2005/2006
BMM2533 Fluid Mechanics 1 (215 Students)
BMM2011 Occupational Safety & Health (215 Students)
16. DEC 2004/2005
BMM1543 Strength of Materials (150 Students)
BMM 1553 Dynamics (150 Students)
17. JUL 2004/2005
BMM1112 Engineering Mathematics 1 (90 Students)
16. JUL 2003/2004
BMM 1523 Engineering Materials (58 Students)

Post Graduate Supervision

1. Rafidah Rahim – Masters of Automotive Engineering. Thesis Title: Analysis of Bio-Diesel as a Fuel for Compression Ignition (CI) Engine, 2010 - 2012

Degree Final Year Project Supervision

No.	Academic Year	Name of Student	Project	Title of Project
1	2011 – 2012	Nina Nadia Sahim	Degree	A Study of Performance Analysis of Fan Coil Unit System for FKM's Air Conditioner
2	2011 – 2012	Naziratul Najihah	Degree	Design and Analysis of a Cloth Drying Machine by Using Heat Waste
3	2011 – 2012	Mohd Hazwan Syafiq Bin Harun	Degree	Nano Lubricant for Refrigeration System
4	2011 - 2012	Loh Wing Liong	Degree	Performance of Refrigerator Operating with and without Liquid-Suction Heating
5	2009 - 2010	Mohd Fauzi Bin Muhammad	Degree	Comprehensive Analysis of Light Weight Lift System
6	2009 - 2010	Amir Hamzah Azahar	Degree	Performance Evaluation of a Central Unit Air Conditioning System at FKM
7	2009 - 2010	Izzat Bin Mohamad Adnan	Degree	Performance Optimization of a Refrigeration System by using Simulation and Experimental
8	2009 - 2010	Azri Amzari Bin Ramli	Degree	Design and Development Heat Extraction System for Waja Car
9	2008 – 2009	Muhammad Farid Kamberi	Degree	Design and Development of Cloth Dryer Cabinet by Utilizing Heat Rejected from Air Conditioning System
10	2008 – 2009	Law Cheh Hong	Degree	Performance Optimization of Domestic Refrigerator using Experimental Method
11	2008 – 2009	Mohd Azri bin Aris	Degree	Energy Balance Study for 1 kW Steam Power Plant
12	2008 – 2009	Mohamad Nadzif Zaihirudin	Degree	Performance Evaluation of Waja Car Air Conditioning System

13	2008 – 2009	Wan Mohd Kamil Wan Ismail	Degree	Design and Analysis of Ventilation and Heat Removing System for Waja Car
14	2008 – 2009	Mohd Pardaus bin Daid	Degree	Performance Optimization of Wind Tunnel Using Experimental Method
15	2007 – 2008	Anizan Bin Wan Ramli	Degree	Refrigerator Study for Domestic Application
16	2007 – 2008	Muhammad Khazrattul Bin Bani	Degree	Design of a Small DC Powered Refrigerator
17	2007 – 2008	Siti Fatimah Binti Ismail	Degree	Design and Analysis of a Light Weight Lift for Disable People
18	2007 – 2008	Alauddin Hafiz Bin Yusof	Degree	Performance Evaluation of Kancil Car Air-Conditioning System
19	2007 – 2008	Muhamad Amirudin Bin Kamarul Badri	Degree	Performance Evaluation of Waja Car Air-Conditioning System
20	2005 – 2006	Mohd Faizal bin Che Saari	Degree	Development of a Domestic Refrigerator Test Rig
21	2005 – 2006	Mohd Sazali bin Haron	Dip	Fabrication of Basic Hydraulic Bench for Fluid Mechanics Laboratory
22	2005 – 2006	Wan Kamaruddin bin Wan Borhan	Dip	Design and Fabrication of Refrigerator Test Rig
23	2005 – 2006	Mohd Faizal bin Mokhtar	Dip	Fabrication of Test Rig for Car Air-Conditioning System
24	2005 - 2006	Mohd Firdaus bin Ali	Degree	Development of Test Facility for Car Air-Conditioning System

List of Publications

A) International and National Conference Papers

- 1) T.M. Yusof, S. Anuar and H. Ibrahim. Review of Ground Heat Exchanger for Cooling Application in Malaysian Climate. International Conference on Automotive Innovation and Green Energy Vehicle, Kuantan, Pahang. 26-27 August 2014.
- 2) T.M. Yusof, A.M. Arshad, M.D. Suziyana, L.G. Chui, M.F. Basrawi. Experimental Study of Malaysian Domestic Refrigerator Working with Al₂O₃/POE Nano-Lubricant for Energy Conservation. International Conference on Automotive Innovation and Green Energy Vehicle, Kuantan, Pahang. 26-27 August 2014.
- 3) T.M. Yusof, S. Anuar and H. Ibrahim. THERMAL ANALYSIS OF A GROUND PASSIVE COOLING (GPC) USING EXPERIMENTAL METHOD, International Conference on Mechanical engineering Research 2015, 18 -19 August 2015.
- 4) **T.M. Yusof**, S. Anuar, and H. Ibrahim,. "Numerical Investigation of Ground Cooling Potential for Malaysian Climate". Malaysian Technical Universities Conference on Engineering & Technology (MUCET) 2013, Kuantan Pahang.
- 5) **T.M. Yusof**, S. Anuar, and H. Ibrahim. "Study of Effect of Thermal Diffusivity on Ground Temperature for Malaysian Climate". World Virtual Conference on Advanced Research in Mechanical and Materials Engineering 2014 – Accepted.
- 6) M.D. Suziyana, S.N. Nina, **T.M. Yusof** and A.A.S. Basirul, "Analysis of Heat Gain in Computer Laboratory and Excellent Centre by using CLTD/CLF/SCL Method". Malaysian Technical Universities Conference on Engineering and Technology (MUCET) 2012, ISSN: 978-967-5415-49-4, Pp 323-330.
- 7) Rafidah Rahim, Rizalman Mamat, **Mohd Yusof Taib**, "Comparative Study of Biofuel and Biodiesel Blend with Mineral Diesel Using One-Dimensional Simulation", *International Conference In Mechanical Engineering Research (ICMER)* 2011, ISBN 978-967-0120-35-5, Pg. 58-67.

- 8) M.S. Reza, A. R. Yusoff, M.A. Shaharun, **T.M. Yusof**, "Optimization of control parameters for SR in EDM injection flushing type on stainless steel 304 workpiece", *International Conference In Mechanical Engineering Research (ICMER) 2011*, ISBN 978-967-0120-35-5, Pg. 473-478.
- 9) S.F. Ismail, **M.Y Taib**, M.Ishak, "Sustainable Analysis of Lightweight Lift System Design for Disable People using Finite Element", *International Conference on Advanced Manufacturing (ICAM 2011)*
- 10) Suziyana Mat Dahan, Nurhaizan Mohd Zainudin, Lee Chia Kuang and **Mohd Yusof Taib**, "Innovation Process: A Review of Existing Models and Development of an Alternative Model", *MUiCEET 2011*
- 11) **T.M Yusof**, A. R. Yusoff and R. Mamat, "Combination of Experiment Data and Computer prediction of an Analysis for Optimum Refrigerant Charge of a Mini Bar Refrigerator", *MUiCEET 2011*
- 12) R.Rahim, R.Mamat, **M.Y.Taib** , "Comparative Study of Biofuel and Biodiesel Blend with Mineral Diesel Using Fuel Spray Injection". *The 4th Engineering Conference 2011 (ENCON 2011)*.
- 13) R.Rahim, R.Mamat, **M.Y.Taib**, "Comparative on Diesel Engine Performance Operating with Biodiesel and Diesel fuel", *2nd National Conference in Engineering for Research and Post Graduate Students (2nd NCMER) 2010, 3-4 Dec 2010, Kuantan, Pahang.*
- 14) M. M. Rahman, Thamir K. Ibrahim, **M. Y. Taib**, M. M. Noor, K. Kadirgama and Rosli A. Bakar, "Thermal Analysis of Open-Cycle Regenerator Gas-Turbine Power-Plant", *World Academy of Science, Engineering and Technology, Issu 68, 2010.*
- 15) R.Rahim, R.Mamat, **M.Y.Taib**, A.A.Kadir, "Effect of Fuel Temperature for Single Cylinder Diesel Engine Operating with Ethanol"
- 16) Rizalman Mamat, **Mohd Yusof Taib**, Nik Mohd Izual Nik Ibrahim, Wan Khairuddin Wan Ali, Mohamad Nazri Mohd Jaafar, "Combustion of High Energetic Materials", *World Engineering Congress 2010, 2nd – 5th August 2010, Kuching, Serawak.*
- 17) **M. Y. Taib**, A. R. M. Sarip, "Design and Analysis of a Single Vane Rotating Sleeve Rotary Compressor for Refrigeration System", *National Conference in Engineering for Research and Post Graduate Studies (NCMER) 2010, 26 May 2010, Kuantan, Pahang.*
- 18) **M. Y. Taib**, A. A. Aziz, A. B. S. Alias, "Performance Analysis of a Domestic Refrigerator", *National Conference in Engineering for Research and Post Graduate Studies (NCMER) 2010, 26 May 2010, Kuantan, Pahang.*
- 19) **M. Y. Taib**, A. R. M. Sarip, "Thermodynamics Analysis of a Rotary Compressor", *National Conference in Engineering for Research and Post Graduate Studies (NCMER) 2010, 26 May 2010, Kuantan, Pahang.*
- 20) Rafidah Rahim, Rizalman Mamat, **M.Yusof Taib**, "One-Dimensional Simulation For Single Cylinder Diesel Engine Operating With Ethanol", *National Conference in Engineering for Research and Post Graduate Studies (NCMER) 2010, 26 May 2010, Kuantan, Pahang.*
- 21) Thamir K.Ibrahim, M.M.Rahman, **M.Y.Taib**, M.M.Noor, K.Kadirgama, "Thermal Analysis Of Open-Cycle Regenerator Gas-Turbine Power-Plants", *National Conference in Engineering for Research and Post Graduate Studies (NCMER) 2010, 26 May 2010, Kuantan, Pahang.*
- 22) D. Ramasamy, K.Kadirgama, A.K.Amirruddin, **M.Y.Taib**, "A Vehicle Body Drag Analysis Using Computational Fluid Dynamics", *National Conference in Engineering for Research and Post Graduate Studies (NCMER) 2010, 26 May 2010, Kuantan, Pahang.*
- 23) M. D. Suziyana, **M. Y. Taib**, "Analysis of Funtional Build (Fb) In Aluminium Extrusion Process Innovation by Using Arena Software", *National Conference in Engineering for Research and Post Graduate Studies (NCMER) 2010, 26 May 2010, Kuantan, Pahang.*
- 24) Zamri Mohamed, **M. Y. Taib**, M.S. Reza, "Assessment Method for Course Outcomes and Program Outcomes in Outcomes Based Education (OBE)", *Malaysian Technical Universities Conference on Engineering and Technology (MUCET 2010), Melaka, Malaysia.*

- 25) Ahmad Razlan Yusoff, Mohd Fathi Alias, **Mohd Yusof Taib**, "Adaptive Neuro Fuzzy Inference System Prediction for a New Refrigerator Rotary Compressor Performance", Seminar Kebangsaan Sains Kuantitatif 2006 (SKSK 06), Langkawi, Malaysia.
- 26) **M.Y. Taib**, M. S. M. Sani, M. M. Noor, K. Kadirgama, "Performance Analysis of a Domestic Refrigerator in Malaysia using Experimental Method", International Conference on Recent and Emerging Advanced Technologies in Engineering (iCreate 2009), 23 – 24 November 2009, Kuala Lumpur.
- 27) M. M. Noor, K. Kadirgama, M. M. Rahman, **M. Y. Taib**, M. S. M. Sani, H. Ishak, "Experimental Study of the Strength for the Spot Welding", Malaysian University Conference in Education Engineering and Technology (MUCEET 2009), 20 – 22 Jun 2009, Kuantan Pahang.
- 28) M.M.Noor, K.Kadirgama, M.R.M.Rejab, **M. Y. Taib**, M.M.Rahman, M.S.M.Sani, Abdullah Ibrahim, Rosli A.Bakar, "Software Development of Assembly Sequence Approach by using Integrated TRIZ, Axiomatic Design and Boothroyd-Dewhurst DFA", International Conference on Software Engineering and Computer Systems (ICSECS '09), 19 – 21 October 2009, Kuantan Pahang.
- 29) M.M.Noor, K.Kadirgama, M.R.M.Rejab, M.M.Rahman, **M. Y. Taib**, M.S.M.Sani, Abdullah Ibrahim, Rosli A.Bakar, "The Effect of Entry Qualification to the Student Performance", Malaysian University Conference in Education Engineering and Technology (MUCEET 2009), 20 – 22 Jun 2009, Kuantan Pahang.
- 30) K. Kadirgama, M.S.M.Sani, M.M.Noor, M.M.Rahman, K.Kadirgama, **M. Y. Taib**, M.R.M.Rejab, Abdullah Ibrahim, Rosli A. Bakar, "Student Performance Analysis using Artificial Intelligent Method", Malaysian University Conference in Education Engineering and Technology (MUCEET 2009), 20 – 22 Jun 2009, Kuantan Pahang.
- 31) M.S.M.Sani, A.Senawi, M.M.Noor, M.M.Rahman, K.Kadirgama, **M. Y. Taib**, M.R.M.Rejab, Abdullah Ibrahim, "Student Exit Survey Analysis for Faculty of Mechanical Engineering Programs at Universiti Malaysia Pahang", Malaysian University Conference in Education Engineering and Technology (MUCEET 2009), 20 – 22 Jun 2009, Kuantan Pahang.
- 32) M.M.Noor, K.Kadirgama, M.M.Rahman, **M.Y.Taib**, M.R.M.Rejab, M.S.M.Sani, A.Sulaiman, Abdullah Ibrahim, Rosli A.Bakar, "The Effect of Entry Qualifications and Gender towards Student Performance", International Engineering Education Conference, (IEEC09), 16~18 May, Madinah, Kingdom of Saudi Arabia, 2009.
- 33) K.Kadirgama, M.M.Noor, M.S.M.Sani, M.M.Rahman, M.R.M.Rejab, **M.Y.Taib**, A.Sulaiman, Abdullah Ibrahim, Rosli A.Bakar, "Development Of Genetic Algorithms And Multilayer Perceptron Neural Network (Mpnn) Model To Study The Student Performance In Thermodynamics", International Engineering Education Conference (IEEC09), 16~18May, Madinah, Kingdom of Saudi Arabia, 2009.
- 34). M.S.M.Sani, A.Senawi, M.M.Noor, M.M.Rahman, **M.Y.Taib**, A.Sulaiman, K.Kadirgama, S.H.Tomadi, R.Daud, M.R.M.Rejab "Quantitative Assessment Of Bachelor Mechanical Engineering Programs By Senior Exit Surveys At Universiti Malaysia Pahang", International Engineering Education Conference (IEEC09), 16~18 May, Madinah, Kingdom of Saudi Arabia, 2009.
- 35) M.M.Noor, A.Sulaiman, K.Kadirgama, M.R.M.Rejab, M.S.M. Sani, F.R.M.Romlay, R.Daud, Z.Ghazalli, R. Devarajan, M.F.Ghazalli, W.S.W.Harun, **M.Y.Taib**, "Simulation of the Corrosion Point and Repairing Technique at the Crane with Finite Element Analysis", 2nd Regional Engineering Conference on Sustainable Engineering Infrastructures Development & Management (ENCON 08), 18-19 December, Crowne Plaza Riverside Hotel, Kuching, Sarawak, Malaysia, 33-38, 2008.
- 36) M.S.M.Sani, L.W.Tuck, G.L. Ming, **M.Y.Taib** and M.N.O., "Investigation of Strength and Flexibility of UMP Go-Kart Chassis Design", Malaysian Science and Technology Congress, 16-17 December, Kuala Lumpur Convention Centre, Malaysia, 2008.
- 37) **Mohd Yusof Taib** and Md Nor Musa "Design and Development of New Rotary Compressor", NSF Conference 2002, Kuala Lumpur.
- 38) **Mohd Yusof Taib** and Md Nor Musa "Design and Development of Single Vane Rotary Compressor For Refrigerator", Malaysian Fuel Cell Conference 2003, Port Dikson.

B) Journal Publication

1. T.M. Yusof, H. Ibrahim, W.H. Azmi, M.R.M. Rejab. Thermal analysis of earth-to-air heat exchanger using laboratory simulator, *Applied Thermal Engineering*, Volume 134, April 2018, Pages 130–140. (Q1, IF 3.356)
2. T.M. Yusof, H. Ibrahim, W.H. Azmi, M.R.M. Rejab, The thermal characteristics and performance of a ground heat exchanger for tropical climates, *Renewable Energy* (2018), Accepted Manuscript. (Q1, IF 4.357)
3. F. Basrawi, H. Ibrahim, M.Y. Taib and G.C. Lee. Optimum Thickness of Wall Insulations and their Thermal Performance for Buildings in Malaysian Climate. *International Journal of Automotive and Mechanical Engineering*, Volume 8 (2013), pp. 1207-1217.
4. T.M. Yusof, S. Anuar and H. Ibrahim. Study of Effect of Thermal Diffusivity on Ground Temperature for Malaysian Climate. *Applied Mechanics and Materials Vol. 554* (2014) pp 301-306.
5. T.M. Yusof, S. Anuar, and H. Ibrahim. Numerical Investigation of Ground Cooling Potential for Malaysian Climate. *International Journal of Automotive and Mechanical Engineering*. Volume 10 (2014), pp. 2081-2090.
6. T.M. Yusof, S. Anuar and H. Ibrahim. Review of Ground Heat Exchanger for Cooling Application in Malaysian Climate. *Journal of Mechanical Engineering and Sciences (JMES)*, Volume 8 (2015), pp. 1426-1439.
7. T.M. Yusof, A.M. Arshad, M.D. Suziyana, L.G. Chui, M.F. Basrawi. Experimental Study of Malaysian Domestic Refrigerator Working with Al₂O₃/POE Nano-Lubricant for Energy Conservation. *International Journal of Automotive and Mechanical Engineering*, Volume 11 (2015), pp. 2243-2252.
8. M.D. Suziyana' S.N. Nina, T.M. Yusof, A.A.S. Basirul. Analysis of Heat Gain in Computer Laboratory and Excellent Centre by using CLTD/CLF/SCL Method. *Procedia Engineering*, Volume 53 (2013), Pages 655–664.
9. Suziyana Mat Dahan, Mohd Yusof Taib, Nurhaizan Mohd Zainudin, Fadzida Ismail. Surveying Users' Perception of Academic Library Services Quality: A Case Study in Universiti Malaysia Pahang (UMP) Library. *The Journal of Academic Librarianship*, Volume 42 (2016), Issue 1, Pages 38–43.
10. Afzam Zulkepli, Lim Wei Yong, Mohd Yusof Taib, Zafri Azran, and Firdaus Basrawi. Analysis on the Performance of Copper Indium Gallium Selenide (CIGS) Based Photovoltaic Thermal. *MATEC Web of Conferences* 38, 02004 (2016).
11. Ibrahim, M.H., Malek, M., Anuar, N. H., **Taib, M.Y.** and Leman, A.M. "Assessment of Noise Level: The Theoretical and Measured Noise". *Global Engineers & Technologists Review (GETview)*. Vol. 3 No. 4, 2013. Pp. 1-6.
12. M.D. Suziyana, S.N. Nina, **T.M. Yusof** and A.A.S. Basirul, "Analysis of Heat Gain in Computer Laboratory and Excellent Centre by using CLTD/CLF/SCL Method". *Procedia Engineering*, Volume 53, 2013, Pp 655-664.
13. Rafidah Rahim, Rizalman Mamat and **Mohd Yusof Taib**. "Comparative Study of Biofuel and Biodiesel Blend with Mineral Diesel Using One-Dimensional Simulation". *Journal of Physics: Conference Series*
14. Rafidah Rahim, Rizalman Mamat, **Mohd Yusof Taib** and Abdul Adam Abdullah. "Influence Of Fuel Temperature On A Diesel Engine Performance Operating With Biodiesel Blended". *International Journal of Applied Science And Technology (IJAST)*. Vol. 43, June 2012. Pp 115-126.
15. Ahmad Razlam Yusoff, Mohamed Reza Zalani Mohamed Suffian and **Mohd Yusof Taib**, "Literature Review of Optimization Technique for Chatter Suppression in Machining". *Journal of Mechanical Engineering and sciences (JMES)*, Vol-1. Pp 47-61. ISSN: 2231-8380
16. Rafidah Rahim, Rizalman Mamat **Mohd Yusof Taib** and Abdul Adam Abdullah, "Influence Of Fuel Temperature On A Diesel Engine Performance Operating With Biodiesel Blended". *Journal of Mechanical Engineering and sciences (JMES)*, Vol-2. Pp. 226-236. ISSN: 2231-8380
17. Suziyana Mat Dahan ¹, **Mohd Yusof Taib** ², Nurhaizan Mohd Zainudin ³, Fadzida Ismail ⁴ and Ahmad Nazif Noor Kamar, "Implementation and Analysis of Chemical Hazard Risk Assessment (CHRA) at

Petrochemicals Company in Malaysia". International Journal of Technology Management, Faculty of Technology, UMP

18. **M.Y.Taib** and M. S. A. Rahim, "Design and Thermodynamics Analysis of a Single Vane Rotating Sleeve Rotary Compressor for Refrigeration System" International Journal of Automotive and Mechanical Engineering. (under review)
19. **T.M Yusof** and A.R Yusoff, "Analysis for Optimum Refrigerant Charge of a Mini Bar Refrigerator Using Experimental Method" Journal of Engineering & Technology, Universiti Malaysia Pahang 2011. Vol. 4. ISSN 1985-5176. Pp1-12.

C) Articles

- 1) M.Y Taib, "Design & Testing of an Intelligent In-Car Heat Extraction System". AUTO INEXSS, Issue 4 July 2011, pg 19-23. ISSN 2229-8355.
- 2) Research article in UTUSAN MALAYSIA: Mega Inovasi. "Pengudaraan Pintar Dalam Kenderaan", 26 March 2012.
- 3) Research article in BERITA HARIAN: Varsiti Inovasi. "UMP Hasilkan Sistem Pengudaraan Dalam Kereta", 16 August 2012. (collaboration with other researcher).

d) Others

- 1) On Air Interview with Berita Radio RTM, Segment: Fokus Hari Ini. Content of interview is regarding to Intelligent in Car Heat Removing System. 4 July 2012.

Author / Editor of Book

- 1) **Editor for:** Proceeding for 1st International Conference in Mechanical Engineering Research (ICMER) 2011, ISBN 978-967-0120-35-5
- 2) **Editor for:** Alternative for Tomorrow: "Core Development in The Near Future", Prof. Dr. Hj. Rosli Abu Bakar, ISBN 978-967-5080-85-2
- 3) **Editor for:** Proceeding for Second National Conference in Mechanical Engineering for Research & Postgraduate Students (2nd NCMER 2010), ISBN 978-967-0120-04-1

List of Consultancy

1. Consultation for Petronas Carigali Angsi-B Crane B-7020 Structural Analysis. Project Manager and Main Researcher, thru RIA-Solution Sdn Bhd, RM12,000. Vot No. UIC080102, Petronas Carigali Sdn. Bhd. thru RIA Solution Sdn. Bhd. Apr ~ Dec 2008. (Completed)
2. Alternative Power Generator Using Pelton Turbine, Lab Performance Testing-MRSM Taiping, May 2008.

List of Research / Project

1. Minimum Quality Lubrication Technique for End Mill to Enhance Machinability of Aluminium Alloys RDU110110 (FRGS-Member)
2. University Research Grant "Performance and Emission Characteristics of a Diesel Engine Operating with Biofuel" as Researcher, Grant amount of RM 28,000. RDU 100333, (15 May'10~14 Apr'11)
3. University Research Grant "Design a Mixer System for Diesel-Water Emulsion as a New Renewable Fuel" as Researcher, Grant amount of RM 39,600. RDU 0903123, (1 Oct '09~30 Sept'10)
4. University Research Grant "Investigation of Refrigerator Performance using Experimental and Simulation Method" as **Project Leader**, RDU 090203, (1 Aug'09~31 July'10)
5. University Research Grant "An Investigation of Wind Power Potential at Kuala Pahang, Pekan" as **Co-Leader**, Grant amount of RM 40,000. RDU 0903126, (1 Nov' 09~30 Apr' 11)

6. University Research Grant “Design and Efficient Performance Appraisal of Hydrogen Fuelled Automobile Engines Combustion Chamber and Port Injector” as Researcher, Grant amount of RM 40,000. RDU 090397, (May’09~Apr’10)
7. University Research Grant “Development of Heat Removing System for Waja Car ”, as a **Main Researcher**, Grant Amount of RM 38,000.00 (May 2009 – May 2010).
8. University Research Grant “Design and Development of a Light Weight Lift System for Disable People”, as **Project Leader**, Grant Amount of RM 38,000.00 (May 2009 – Nov 2010).
9. University Research Grant “Simulation of 2-Dimensional of droplet motion on surface phenomenon using lattice Boltzmann method (LBM) algorithm”, as Main Researcher, Grant amount of RM18,000 (Jun’08 ~ Jun’09). (Status: In Progress)
10. Mosti Science Fund, “Design and Development of an Intelligent Heat Removing System from Car Passanger Compartment”, as project leader, Grant Amount RM90 000.00 (Status: Application).
11. “Design and Development of a Rotating Sleeve Rotary Compressor for Refrigerator Application”, Master Thesis, Researcher. (2005). (Status: Completed).

Research Achievements / Awards

1. Intelligent In-Car Heat Removing System, CITREX 2011, UMP – Silver Medal
2. Intelligent In-Car Heat Removing System, ITEX 2011, Kuala Lumpur – Bronze Medal
3. In-Car Heat Removing System by Utilizing Reverse Blower Operation, INEX 2011, Kuantan Pahang – Gold Medal
4. Bronze Medal: Support Vector Machine Learning Method to Predict Recycling Strategy for Electronic Equipments, Malaysia Technology Expo 2010
5. Research Award: Silver – Title: A New Machining Mould Algorithm based on Response Ant Colony (RACA), 20th International Invention, Innovation, Industrial Design & Technology Exhibition (ITEX09), Researcher, PWTC Kuala Lumpur, 15~17 May 2009.
6. “New Rotary Compressor for Refrigeration System”, Industrial Art and Technology Exhibition (INATEX) 2004, UTM.
7. “New Compressor for Refrigerator”, EXPO S&T 2002, Kuala Lumpur, Ministry of Science Technology and Environment of Malaysia. (Bronze Medal)
8. “New Rotary Compressor for Refrigeration System”, Seoul International Science & Technology Expo, 2002. (Silver Medal)

Reviewer

1. Reviewer for the 3rd Malaysian Postgraduate Conference (MPC2013), 3-4 Jul, Sydney, New South Wales, Australia.
2. Reviewer for Journal of Mecanical Engineering and Sciences (JMES), ISSN: 2231-8380
3. Reviewer for International Conference on Advanced Manufacturing (ICAM 2011), TATI University College.
3. Reviewer for International Conference on Chemical Innovation (ICCI 2011), TATI University College.
4. National Conference of Post Graduate Research 2009 (NCON-PGR 2009), Universiti Malaysia Pahang.
5. Malaysian University Conference in Education Engineering and Technology (MUCEET 2009), Universiti Malaysia Pahang.
6. International Journal of Automotive and Mechanical Engineering, Universiti Malaysia Pahang.
7. National Conference in Engineering for Research and Post Graduate Studies (NCMER) 2010, Faculty of Mechanical Engineering, Universiti Malaysia Pahang.
8. 2nd National Conference in Engineering for Research and Post Graduate Studies (2nd NCMER) 2010, Faculty of Mechanical Engineering, Universiti Malaysia Pahang.

Awards in Services

- 1) Sijil Perkhidmatan Cemerlang 2008, Universiti Malaysia Pahang
- 2) Anugerah Pekerja Cemerlang 2009, Universiti Malaysia Pahang
- 3) Sijil Perkhidmatan Cemerlang 2007, Universiti Malaysia Pahang

List of Course / Conference Attended

Date	Program	Status
18 March 2011	Bengkel Penyediaan Geran Penyelidikan FRGS & ERGS Tahun 2011, Pusat Kejuruteraan Automotif, Grand Continental Hotel, Kuantan.	Participant
14-15 November 2011	MUICET 2011, Batu Pahat, Johor	Presenter
6-7 December 2011	International Conference in Mechanical Engineering Research (ICMER) 2011, Kuantan, Pahang.	Participant
1 July 2011	Colloquium FKM, FKM, UMP	Presenter
2-3 July 2011	Teaching and Learning Workshop, FKM, UMP	Participant
20 August 2011	CQI & OBE Workshop series 1/2011, MS Garden Hotel, Kuantan	Participant
1-2 June 2011	ANSYS (FLUENT) TRAINING	Participant
3 June 2011	EndNote Training	Participant
16 – 17 Dec 2010	CQI Workshop for Sem. 2 2010/2011, Faculty of Mechanical Engineering, Vistana Hotel, Kuantan.	Participant/ Presenter
7 Oct 2010	ADUCATE 10, AKEPT, Kementerian Pengajian Tinggi	Participant
19 -20 Aug 2010	External Examiner Meeting, FKM, UMP	Member
16 Jan 2010	IAP Meeting, FKM, UMP	Member
18 – 22 Feb 2010	Penilaian Tahap Kecekapan (PTK 4), UMP	Participant
23-24 June 2010	CQI Course, Faculty of Mechanical Engineering, UMP	Participant
7-11 June 2010	Skim Latihan Akademik Bumiputera (SLAB), CAIC, UMP	Participant
7 March 2010	Mockup Audit, FKM, UMP	Participant
7-8 April 2010	Program Ijazah Luar Negara (PILN) JPA	Panel
26 May 2010	National Conference in Mechanical Engineering for Research & Posr Graduate Students (NCMER 2010), FKM, UMP	Panel/ Presenter
16-17 Dec 2009	Post-Graduate Conference, UMP and USM	Chairperson/ Participant
10-12 Dec 2009	Workshop on Faculty Continual Quality Improvement (CQI) and OBE	Facilitator/ Participant
8-10 Dec 2009	Training for Trainers (OBE)	Participant
23-24 Nov 2009	International Conference on Recent and Emerging Advanced of Technologies & Engineering (iCREATE 2009)	Presenter
6-8 Nov 2009	Workshop on Completion of ISO Document for FKM	Participant
30 Oct – 2 Nov 2009	Kursus Transformasi Kearah UMP Terbilang	Participant
22-26 Oct 2009	Kursus Bina Negara, Biro Tata Negara, Balik Pulau, Pulau Pinang	Participant

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18 March 2011	Bengkel Penyediaan Geran Penyelidikan FRGS & ERGS Tahun 2011, Pusat Kejuruteraan Automotif, Grand Continental Hotel, Kuantan.	Participant
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1 July 2011	Colloquium FKM, FKM, UMP	Presenter
2-3 July 2011	Teaching and Learning Workshop, FKM, UMP	Participant
20 August 2011	CQI & OBE Workshop series 1/2011, MS Garden Hotel, Kuantan	Participant
1-2 June 2011	ANSYS (FLUENT) TRAINING	Participant
3 June 2011	EndNote Training	Participant
16 – 17 Dec 2010	CQI Workshop for Sem. 2 2010/2011, Faculty of Mechanical Engineering, Vistana Hotel, Kuantan.	Participant/ Presenter
18–21 Oct 2009	International Conference on Software Engineering & Computer Systems (ICSECS'09), Swiss Garden Resort & Spa, Kuantan, Pahang	Participant/ Presenter
13–14 Oct 2009	Accreditation Visit from EAC	Program Leader
15–16 Sept 2009	Workshop on Preparation of Self Assessment Report for EAC	Facilitator
9–10 Sept 2009	EAC Pre-Audit	Program Leader
20–22 Jun 2009	Malaysian University Conference in Education Engineering and Technology (MUCEET 2009) Kuantan, Pahang	Participant/ Presenter/ Chairperson
16–18 May 2009	International Engineering Education Convention (IntEC 2009), Madinah, Kingdom of Saudi Arabia.	Participant
5-6 May 2009	FKM EAC Self Assessment Report Workshop	Expert Panel
10–12 Apr 2009	FKM External Examiner Evaluation at Kuala Lumpur	Facilitator & Expert Panel
30 Mar 2009	CIDB Green Card Training	Participant
13, 24 & 26 Mar 2009	Review UMP and FKM Research Grant Application	Expert Panel
18 Mar 2009	Fac. of Mechanical Engineering Solidwork Competition Judge/Panel Evaluator, UMP.	Judge / Expert Panel
16 Mar 2009	FKM UMP Stakeholders Meeting	Facilitator & Expert Panel
10 Mar 2009	FKM UMP Industry Advisory Panel Meeting	Facilitator & Expert Panel
6–8 Feb 2009	Workshop on FKM Technical Group Organisation and KPI's, Legend Cherating.	Facilitator
30 Jan–1Feb 2009	Workshop on Preparation to apply MOSTI Sc Fund, Hotel Legend, Cherating	Participant/ Project Leader
30 Dec 2008	Training on Introduction to STATISTICA Industrial.	Participant
21–23 Dec 2008	Engineering Accreditation (EAC) Lead Trainer, Vistana Hotel, Kuantan	Participant
17 Dec 2008	One Day Workshop on Submission to EAC 17 December Hilton Hotel, Kuching, Sarawak, Malaysia, 2008.	Participant
4–5 Dec 2008	FKM APEX15: Strategic Planning and SKT, Hotel Legend, Cherating.	Participant
1–3 Dec 2008	FKM OBE Workshop: Curriculum Transformation and Teaching Plan Review, Selesa Hilhomes, Bukit Tinggi.	Facilitator
17–25 Nov 2008	Kursus Penilaian Tahap Kecekapan (TK3), UMP	Participant

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18 March 2011	Bengkel Penyediaan Geran Penyelidikan FRGS & ERGS Tahun 2011, Pusat Kejuruteraan Automotif, Grand Continental Hotel, Kuantan.	Participant
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6-7 December 2011	International Conference in Mechanical Engineering Research (ICMER) 2011, Kuantan, Pahang.	Participant
1 July 2011	Colloquium FKM, FKM, UMP	Presenter
2-3 July 2011	Teaching and Learning Workshop, FKM, UMP	Participant
20 August 2011	CQI & OBE Workshop series 1/2011, MS Garden Hotel, Kuantan	Participant
1-2 June 2011	ANSYS (FLUENT) TRAINING	Participant
3 June 2011	EndNote Training	Participant
16 – 17 Dec 2010	CQI Workshop for Sem. 2 2010/2011, Faculty of Mechanical Engineering, Vistana Hotel, Kuantan.	Participant/ Presenter
16 Aug 2008	Bloom Taxonomy and OBE CQI Workshop. UMP	Facilitator & Participant
9–11 Jun 2008	FKM Continuous Quality Improvement(CQI) in OBE Training by Prof. Ir. Dr. Riza UKM, and EAC Task Force Meeting, De Rhu, Balok, Kuantan.	Participant
22 Apr 2008	Training on ALGOR finite element software application, UMP.	Participant
29 Feb ~2 Mar 2008	FKM Outcome Base Education Training, Holiday Villa, Cherating.	Participant
4–5 Feb 2008	Engineering Contract Training, Board of Engineer Malaysia (BEM) mandatory training for professional engineer (PE) by Ir. Harban Singh.	Participant
29–30 Dec 2007	Occupational Safety and Health Training, Board of Engineer Malaysia (BEM) professional engineer (PE) mandatory training by CMD(R) Ir. Raymond Sua.	Participant
27–28 Dec 2007	Management Skill Training, Board of Engineer Malaysia (BEM) mandatory training for PE by CMD(R) Ir. Raymond Sua.	Participant
15–23 Dec 2007	Research Exhibition – Development of laser cutting and engraving machine utilizing PC-NC controller, East Coast Economic Region, Petronas Exhibition, (ECER).	Exhibitor
17 Dec 2007	Technical training – Thermodynamics free and force heat convection by supplier technical trainer.	Participant
10 Dec 2007	Training on academic advisor and Student Motivation and Counselling, Ms Garden, Kuantan - UMP	Participant
27 Nov 2007	Technical training – Thermodynamics Marcet Boiler by supplier's trainer.	Participant
19–21 Nov 2007	Training on Outcome Based Education. approach: Monitoring and Assessment, by MQA, KPT & CTL UTM. – Equatorial Hotel KL.	Participant