Curriculum Vitae- Dr. Muhammad Abdul Mujeebu

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Founder and Chief Editor- International Journal of Advanced Thermofluid Research (www.ijatr.org)
Founder and Chairman- International Research Establishment for Energy and Environment (www.ireee.net)

Date of birth : 15 – 05 – 1966
Nationality : Indian

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Research Gate Profile:	https://www.researchgate.net/profile/M_Abdul_Mujeebu2
Google Scholar Profile:	http://scholar.google.com.sg/citations?user=gaVNgqcAAAAJ&hl=en
LiveDNA Profile:	http://livedna.org/91.11128
Elsevier Reviewer Profile:	http://www.reviewerpage.com/Muhammad-Abdul-Mujeebu

RESEARCH INTERESTS

- Combustion in porous media
- Green buildings
- Energy and thermal performance of buildings
- Indoor air quality
- Building sustainability
- Industrial cogeneration (CHP) and trigeneration (CCHP)
- Energy efficient refrigeration systems
- Energy from waste
- Absorption refrigeration system
- Micro combustors & MEMS
- Electronic cooling & packaging
- CFD analysis of energy systems
- IC engines and combustion
- Heat pipes for CPU cooling
- Composite materials
- Nanotechnology
- Reforms in Science and Technology Education
- Higher education quality

EDUCATIONAL QUALIFICATION

Degree	Major/Specialization	University	Year
Postdoctoral Fellowship	Combustion in Porous Media	Universiti Sains Malaysia, Penang, Malaysia	2011
Doctor of Philosophy (PhD)	Combustion in Porous Media	Universiti Sains Malaysia, Penang, Malaysia	2010
Master of Technology (M Tech)	Energy Management	National Institute of Technology Calicut, India	2004
Bachelor of Technology (B Tech)	Mechanical Engineering	Kerala University, India	1988

EMPLOYMENT HISTORY

Current Job

May 2013 till date: Associate Professor, Department of Building Engineering, College of Architecture and Planning, University of Dammam, Saudi Arabia

College of Architecture and Planning, University of Dammam, Kingdom of Saudi Arabia

Responsibilities:

- ✓ Teaching courses such as Research Methods, Technical Writing, Advanced Topics in Building Energy, Senior Project Report, Design Studio - Technical Project, etc.
- ✓ Member of Accreditation (NCAAA) Principal Committee
- ✓ Preparing Program Accreditation documents such as Annual Program Report, Self-Study Report for NCAAA accreditation, etc.
- ✓ Coordinator for Academic Quality Assurance Unit
- ✓ Technical editing and shaping of research articles for publishing
- ✓ Shaping research proposals for funding and editing research reports

Previous Jobs

1. **December 2011 May 2013**: **Professor of Mechanical Engineering, and Director of Postgraduate Studies and Research**

   Anjuman Institute of Technology and Management, Bhatkal (Visvesvaraya Technological University, Belgaum), India

2. **December 2010 - November 2011: Postdoctoral Fellow**

   Universiti Sains Malaysia (Science University of Malaysia), Penang, Malaysia

3. **September 2007 - November 2010: Research officer**

   School of Mechanical Engineering, Universiti Sains Malaysia, Penang, Malaysia (worked as research officer parallel to PhD program)

4. **March 1998- August 2007: Teaching Faculty**

   Anjuman Institute of Technology and Management, Bhatkal Anjuman Institute of Technology and Management, Bhatkal (Visvesvaraya Technological University, Belgaum), India

   1998 to 2004: Lecturer

   2004 to 2006: Senior lecturer

   2006 to 2007: Assistant Professor

   2007 to 2011: Deputed for higher studies

   Dec 2011- Joined back, and was promoted to Professor

5. **August 1989 –February 1998: Industrial Jobs**

   August 1989 – July 1990: Project Supervisor at Ajssir Constructions, Alwaye Kerala, S.India

   May 1991 – June 1993: Production Engineer at Nafee Electronics, Bangalore, India

   April 1995 – Feb. 1998: Production Engineer at HHYS Group of Concerns, Kerala, S.India

LIST OF PUBLICATIONS

International Refereed Journals

2008

1. M. A. Ismail, M. Z. Abdullah and **M. Abdul Mujeebu**, CFD-Based Experimental Analysis on the Effect of Free Stream Cooling on the Performance of Micro Processor Heat Sinks, International Communications in Heat and Mass Transfer, Volume 35, Issue 6, July 2008, Pages 771-778.

2. M.Khalil Abdullah, M. Z. Abdullah, **M. Abdul Mujeebu**, S. Kamaruddin and Z. M. Ariff. A Study on the Effect of Stack Thickness during Encapsulation of Stacked-Chip Scale Packages (S-CSP). Journal of Microelectronics & Electronic Packaging, Vol. 5, No. 2, Second Quarter 2008, Pages 62-67.

3. Mazlan Mohamed, Rasdi Deraman, M.Z. Abdullah, **M. Abdul Mujeebu**, M. K. Abdullah, Three-Dimensional CFD Simulation for 8 PLCC Packages Mounted in Line on a Printed Circuit Board, ESTEEM, (Journal published by Universiti Teknologi Mara, Malaysia) Vol. 4(1), 79–99, 2008.

2009

4. **M. Abdul Mujeebu**, S. Jayaraj, S. Ashok, M. Z. Abdullah and M. Khalil. Feasibility Study of Cogeneration in a Plywood Industry with Power Export to Grid, Applied Energy 86 (2009) 657–662.

5. **M. Abdul Mujeebu**, M.Z Abdullah, M.Z Abu Bakar, A.A. Mohamad, R.M.N Muhad, M. Khalil, Combustion in Porous media and its applications- A comprehensive survey, Journal of Environmental Management 90 (2009) 2287–2312.

6. **M. Abdul Mujeebu**, M.Z Abdullah, M.Z Abu Bakar, A.A. Mohamad, R.M.N Muhad, M. Khalil, Corrigendum to ‘‘Combustion in porous media and its applications – A comprehensive survey’’ [Journal of Environmental Management 90 (2009) 2287–2312]. Journal of Environmental Management 91 (2009) 550.

7. **M. Abdul Mujeebu**, M.Z Abdullah, M.Z. Abu Bakar, A.A. Mohamad, M. K. Abdullah., A Review of Investigations on Liquid Fuel Combustion in Porous inert media, Progress in Energy and Combustion Science 35 (2009) 216–230.

8. **M. Abdul Mujeebu**, M.Z Abdullah, M.Z. Abu Bakar, A.A. Mohamad, M. K. Abdullah. Applications of porous media combustion technology- A review, Applied Energy 2009; 86 (9) 1365–1375.

9. **M. Abdul Mujeebu**, M. Z. Abdullah and S. Ashok, Viability of Biomass Fueled Steam Turbine Cogeneration with Power Export for an Asian Plywood Industry, Energy Exploration & Exploitation, Volume 27 • Number 3 • 2009 pp. 213-224.

10. M.Khalil Abdullah, M. Z. Abdullah, **M. Abdul Mujeebu**, S. Kamaruddin and Z. M. Ariff. A Study on the Effect of Epoxy Moulding Compound (EMC) Rheology during Encapsulation of Stacked-Chip Scale Packages (S-CSP). Journal of Reinforced Plastics and Composites 2009; 28 (20): 2527-2538.

11. C S Ramesh, R Noor Ahmed, **M Abdul Mujeebu**, M Z Abdullah, Fabrication and Study on Tribological Characteristics of Cast Copper-TiO2- Boric acid hybrid Composites, Materials & Design 30 (2009) 1632–1637.

12. C S Ramesh, R Noor Ahmed, **M Abdul Mujeebu**, M Z Abdullah, Development and Performance Analysis of Novel Cast Copper-SiC- Gr hybrid Composites, Materials and Design 30 (2009) 1957–1965.

13. M.K. Abdullah, M. Z. Abdullah, M. V. Ramana, C. Y. Khor, K. A. Ahmad, **M. A. Mujeebu** Y. Ooi, and Z. Mohd Ripin. Numerical and experimental investigations on effect of fan height on the performance of piezoelectric fan in microelectronic cooling, International Communications in Heat and Mass Transfer 36 (2009) 51–58.

14. S. A. Ageel, A.M. Saleem, B. B. Farhad **M. Abdul Mujeebu** and, J. M. Alalkawi, Cold Extrusion of Carbon Electrodes Using Dies of CRHS Concept and Performance Analysis, Modern Applied Science (Journal of Canadian Center of Science and Education), 2009, Vol. 3, No. 3, pp. 44-54.

15. A. Al-Mofleh, S. Taib, **M. Abdul Mujeebu** and W. Salah, Analysis of Sectoral Energy Conservation in Malaysia, Energy 34 (2009) 733–739.

16. Mohamed Osman Saeed, Mohd Nasir Hassan, **M Abdul Mujeebu**. Assessment of Municipal Solid Waste Generation and Recyclable Materials Potential in Kuala Lumpur, Malaysia, Waste Management 29 (2009) 2209–2213.

17. S. Yusoff, M. Mohamed, K. A. Ahmad, M. Z. Abdullah, **M. Abdul Mujeebu**, Z. Mohd Ali, F. Idrus, Y. Yaakob, 3-D Conjugate Heat Transfer Analysis of PLCC Packages Mounted In-line on a Printed Circuit Board, International Communications in Heat and Mass Transfer 36 (2009) 813–819.

18. N.F.Zulkefli, E.N.Tai, **M. Abdul Mujeebu**, M.Z.Abdullah, K.A.Ahmad, Numerical and experimental investigations of passive flow control devices on a backward facing step, International Journal of Engineering and Technology, Vol. 6, No. 2, 2009, pp. 21-29.

2010

19. M.Khalil Abdullah, M. Z. Abdullah, **M. Abdul Mujeebu**, S. Kamaruddin and Z. M. Ariff , Three-Dimensional Modelling on Effect of Multi Die-Stacking Shape in Mould Filling during Encapsulation of Microelectronic Chips, IEEE Transactions on Components Packaging and Manufacturing Technology 2010; 33 (2): 438 – 446.

20. R.M.N. Muhad, M.Z. Abdullah, A. A. Mohamad, **M. Abdul Mujeebu**, M.Z. Abu Bakar, R. Zakaria,3-D numerical modeling and experimental investigation of partial-premix type porous medium burner using LPG fuel, Journal of Porous Media Volume 13, Issue 7, 2010, Pages 655-669.

21. C.Y. Khor, M. Z. Abdullah, **M. Abdul Mujeebu**, M. K. Abdullah and Z. M. Ariff, Three dimensional numerical and experimental investigations on polymer rheology in meso-scale injection molding, International Communications in Heat and Mass Transfer, 37 (2010) 131–139.

22. C.Y. Khor, **M. Abdul Mujeebu**, M. Z. Abdullah and F. Che Ani, Finite volume based CFD simulation of pressurized flip chip underfill encapsulation process, Microelectronics Reliability 50 (2010) 98–105.

23. M. K. Abdullah, M. Z. Abdullah, **M. Abdul Mujeebu**, Horizon Gitano, Z. M. Ariff, R. Razali , K. A. Ahmad, Three-Dimensional Modelling of Mould Filling in Microchip Encapsulation Process with Matrix Array Arrangement, Journal of Electronic Packaging, Transactions of the ASME, 2010, Vol. 132, pp. 014502-1-6.

24. C.Y. Khor, M. Z. Abdullah**, M. Abdul Mujeebu**, M. K. Abdullah and Z. M. Ariff. FV M based numerical study on the effect of solder bump arrangement on capillary driven flip chip underfill process, International Communications in Heat and Mass Transfer 37 (2010) 281–286.

25. H. M.T. Khaleed, Z. Samad, A.R. Othman, **M. Abdul Mujeebu**, A. R. Arsyad, A. R. Ab-Kadir, A. Hussaini, A.B. Abdullah., Finite element analysis and experimental validation of flashless cold forging of propeller hubs and blade of autonomous underwater vehicle, Proceedings of the Institution of Mechanical Engineers Part B-Journal of Engineering Manufacture 224 (9):1455-1467, (2010)

26. Mazlan Mohamed, M.Z. Abdullah, **M. Abdul Mujeebu** and M. K. Abdullah, Numerical Investigation of Heat Transfer in Plastic Leaded Chip Carrier (PLCC) Packages in In-line Arrangement, Journal of Modeling, Design & Management of Engineering Systems, 5(1):11 – 22 (2010).

27. C.Y. Khor, M.K. Abdullah, M.Z. Abdullah, **M. Abdul Mujeebu**, D. Ramdan, M.F.M.A. Majid, and Z.M. Ariff. Effect of vertical stacking dies on flow behavior of epoxy molding compound during encapsulation of stacked-chip scale packages, Heat and Mass Transfer Volume 46, Issue 11-12 (2010):1315-1325.

28. **M. Abdul Mujeebu**, M.Z Abdullah, M.Z. Abu Bakar, A.A. Mohamad, Trends in modeling of porous media combustion, Progress in Energy and Combustion Science 36 (2010) 627-650.

2011

29. H.M.T. Khaleed, Z. Samad, A.R. Othman, A. R. Ab-Kadir, **M. Abdul Mujeebu**, A.B. Abdullah, Irfan Anjum Magami, N.J. Salman Ahmed. Computer-aided FE simulation for flash-less cold forging of connecting rod, Arabian Journal for Science and Engineering. August 2011, Volume 36, Issue 5, pp 855-865.

30. **M. Abdul Mujeebu**, M. Z. Abdullah and S. Ashok, Husk-Fuelled Steam Turbine Cogeneration for a Rice Mill with Power Export- A Case Study, Energy Sources Part A- Recovery, Utilization, and Environmental Effects. Volume 33 Issue 8, 724 (2011).

31. R.M.N. Muhad, M.Z. Abdullah, **M. Abdul Mujeebu**, M.Z. Abu Bakar, R. Zakaria, A.A. Mohamad. Development and performance analysis of partially premixed LPG porous medium combustor, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects 2011; 33(13) 1260-1270.

32. M. Z. Abdullah, **M. Abdul Mujeebu**, H. Gitano, Y. Yaakob and M. K. Abdullah, Transient Natural Convection in a Rectangular Cavity Filled with Porous Medium Heated Discretely at Vertical Wall, J. of Engineering Science, Vol. 7, 2011, pp. 1-13.

33. Padmayya Naik, Mohamad Ibrahim, A.O. Surendranathan, **M. Abdul Mujeebu**. Development and characterization of carbon-carbon composite for aircraft brake pad using Preformed Yarn method. World Journal of Engineering 8(3) (2011) 251-258.

34. **M. Abdul Mujeebu**, M. Z. Abdullah, A. A. Mohamad. Development of energy efficient porous medium burners on surface and submerged combustion modes, Energy 36 (2011) 5132-5139.

35. M. Sri Raj Rajeswari, K.A.M. Azizli, S.F.S. Hashim, M.K. Abdullah, **M. Abdul Mujeebu**, M.Z. Abdullah. CFD Simulation and Experimental Analysis of Flow Dynamics and Grinding Performance of Opposed Fluidized Bed Air Jet Mill, International Journal of Mineral Processing 98 (2011) 94–105.

36. C.Y. Khor, M.K. Abdullah, M.Z. Abdullah, **M. Abdul Mujeebu**, D. Ramdan, M.F.M.A. Majid, Z.M. Ariff and M.R Abdul Rahman. Numerical analysis on the effects of different inlet gates and gap heights in TQFP encapsulation process, International Journal of Heat and Mass Transfer 54(9–10), (2011): 1861–1870.

37. H.M.T. Khaleed, Z. Samad, A.R. Othman, **M. Abdul Mujeebu**, A.B. Abdullah, M.M.Zihad. Work-piece optimization and thermal analysis for flash-less cold forging of AUV propeller hubs - FEM simulation and experiment. Journal of Manufacturing Processes, 13(1), 2011, Pages 41-49.

38. Mohamed H A Elnaggar, M. Z. Abdullah and **M. Abdul Mujeebu**. Experimental Analysis and FEM Simulation of Finned U-shape Multi Heat Pipe for Desktop PC Cooling. Energy Conversion and Management 52 (2011) 2937–2944.

39. **M. Abdul Mujeebu**, M.Z Abdullah, M.Z. Abu Bakar, A.A. Mohamad. Mesoscale premixed LPG burner with surface combustion in porous ceramic foam, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects (2011) 34:1, 9-18.

40. **M. Abdul Mujeebu**, M.Z Abdullah, M.Z. Abu Bakar, A.A. Mohamad. Development of premixed burner based on stabilized combustion within discrete porous medium, Journal of Porous Media. 14 (10) (2011) 909-917.

2012

41. Mahfoozur Rehman, **M. Abdul Mujeebu**, Tan Boon Kheng and Basem A. J. A. Abu Izneid, A microprocessor based novel instrument for temperature and thermal conductivity measurements, Experimental Techniques. Volume 36, Issue 5, pages 62–70, September/October 2012.

42. Mahfoozur Rehman, **M. Abdul Mujeebu**, Y.S. Cheng and Amir Abu Al Aish, Design and Development of a microcontroller based human response measurement system, Experimental Techniques. Volume 36, Issue 5, pages 62–70, September/October 2012

43. W.C. Leong M.Z. Abdullah, **M. Abdul Mujeebu**. Flow induced deflection and stress on flexible printed circuit board (FPCB) in fan-cooled electronic systems: FSI approach. IEEE Transactions on Components Packaging and Manufacturing Technology 2(4): 617 – 624 (2012).

44. C.Y. Khor, M.Z. Abdullah and **M. Abdul Mujeebu**. Influence of gap height in flip chip underfill process with non-Newtonian flow between two parallel plates. Journal of Electronic Packaging, Transactions of the ASME 134 (01) 10031-6 (2012).

45. M. H. A. Elnaggar, M. Z. Abdullah and **M. Abdul Mujeebu**. Characterization of working fluid in vertically mounted Finned U-Shape Twin Heat Pipe for Electronic Cooling. Energy Conversion and Management Volume 62 (2012), Pages 31–39.

46. D. Ramdan, M. Z. Abdullah, and **M. Abdul Mujeebu**, W. K. Loh, C. K. Ooi, R. C. Ooi, FSI simulation of wire sweep PBGA encapsulation process considering rheology effect, IEEE Transactions on Components Packaging and Manufacturing Technology, Vol. 2 (4), April 2012.

47. Abdullah MK, Ismail NC, Abdullah MZ, **Abdul Mujeebu M**, Ahmad KA, Ripin Z. Mohd (2011) Effects of Tip Gap and Amplitude of Piezoelectric Fans on the Performance of Heat Sinks in Microelectronic Cooling. Heat and Mass Transfer. June 2012, Volume 48, Issue 6, pp 893-901.

48. M. K. Abdullah, B. H. Murni, M. Z. Abdullah, **M. Abdul Mujeebu**, F. Hussin, H. Yusoff, N.C. Ismail, K. A. Ahmad, and Z. Mohd Ripin. Heat transfer enhancement using piezoelectric fan in electronic cooling - experimental and numerical observations. ISI Bilimi ve Teknigi Dergisi-Journal of Thermal Science and Technology (2012) 32 (1): 41-49.

49. M. C. Ting, **M. Abdul Mujeebu**, M. Z. Abdullah, M. R. Arshad, Numerical study on hydrodynamic performance of shallow underwater glider platform, Indian J. of Marine Sciences, Vol. 41(2), April 2012, pp. 124-133.

50. M. K Abdullah, N. C Ismail, **M. Abdul Mujeebu**, M. Z Abdullah, K. A Ahmad, Muhamad Husaini, M. N. A. Hamid. Optimum Tip Gap and Orientation of Multi-Piezofan for Heat Transfer Enhancement of Finned Heat Sink in Microelectronic Cooling. International Journal of Heat and Mass Transfer Volume 55, Issues 21–22 (2012), Pages 5514–5525.

51. S. F. Shaker, M.Z. Abdullah, **M. Abdul Mujeebu**, K.A. Ahmad and M.K. Abdullah. Study on the Effect of Number of Film Cooling Rows on the Thermal Performance of Gas Turbine Blade. ISI Bilimi ve Teknigi Dergisi-Journal of Thermal Science and Technology. 32 (2): 89-98, 2012.

2013

52. Mohamed H A Elnaggar, M. Z. Abdullah and **M. Abdul Mujeebu**. Experimental investigation and optimization of heat input and coolant velocity of finned twin U-shaped heat pipe for CPU cooling. Experimental Techniques. Volume 37, Issue 6, November/December 2013.

53. D. Ramdan, C.Y. Khor , **M. Abdul Mujeebu**, M. Z. Abdullah, W. K. Loh and C. K. Ooi, FSI Analysis of Wire Sweep in Encapsulation Process of Plastic Ball Grid Array Packaging, ISI Bilimi ve Teknigi Dergisi-Journal of Thermal Science and Technology. 33(1):101-109, 2013.

54. H. J. Tony Tan, M.Z. Abdullah, **M. Abdul Mujeebu**. Effects of Geometry and number of Hollow on the Performance of Rectangular Fins in Microchannel Heat Sinks. ISI Bilimi ve Teknigi Dergisi-Journal of Thermal Science and Technology. 33(1):01-09, 2013.

55. **M. Abdul Mujeebu**, M. Z. Abdullah, Mohammed Zuber. Experiment and simulation to develop clean porous medium surface combustor using LPG. ISI Bilimi ve Teknigi Dergisi-Journal of Thermal Science and Technology. 33 (1): 55-61, 2013.

56. H.M.T. Khaleed, Z. Samad, **M. Abdul Mujeebu**, A.B. Abdullah. Flash-less Cold Forging of AUV Propeller Blade: Work-piece Optimization and Thermal Analysis. Arabian Journal for Science and Engineering. September 2013, Volume 38, Issue 9, pp 2509-2519.

57. H. Yusoff, M. Z. Abdullah, **M. Abdul Mujeebu** and K. A. Ahmad. Development of Flexible Wings and Flapping Mechanism with Integrated Electronic Control System, for Micro Air Vehicle research. Experimental Techniques 37(4), 2013, pp. 25-37.

2014

58. Lau, C., Abdullah, M. Z., **Abdul Mujeebu**, M., & Yusop, N. (2014). Finite element analysis on the effect of solder joint geometry for the reliability of ball grid array assembly with flexible and rigid PCBs, Journal of Engineering Science and Technology, School of Engineering Taylor's University. 9(1), 47–63.

59. H.M.T. Khaleed, M.F. Addas, **M Abdul Mujeebu**, Abdullah A. Al-Rashed, Irfan Anjum Badruddin, G.A. Quadir, Salman Ahmed N.J, T.M. Yunus khan, Sarfaraz Kamangar. Flash-less Cold Forging of Cup-shaped Object and Stress Analysis of Forging Die using FEM Simulation and Experiment. Australian Journal of Basic and Applied Sciences, 8 (24): 401-410, 2014.

2015

60. H. Yusoff, M. Z. Abdullah, K. A. Ahmad, **M. Abdul Mujeebu**. Effect of Skin Flexibility on Aerodynamic Performance of Flexible Skin Flapping Wings for Micro Air Vehicles. Experimental Techniques. 39 (2015) 11–20.

61. Othman Alshamrani and **M Abdul Mujeebu**. Effects of Shading Strategy and Orientation on Energy Performance of School Building. Journal of Architecture and Planning 2015; 28 (1): 129-141.

62. **M Abdul Mujeebu** and Othman Subhi Alshamrani. A Review of Solar Energy Exploration and Utilization in Saudi Buildings. International Journal of Advanced Thermofluid Research 2015; 1(1): 70-85

63. Isabel Malico and **M Abdul Mujeebu**. Potential of Porous Media Combustion Technology for Household Applications. International Journal of Advanced Thermofluid Research 2015; 1(1): 50-69.

Invited Book Chapters

64. **Combustion in porous inert media, Chapter 15**, pp.195-205 in: Combustion Synthesis - Novel Routes to Novel Materials, Edited by Maxmilian Lackner, Bentham Science Publishers Ltd. 2010, (eISBN: 978-1-60805-155-7.

65. **Applications of Porous Media Combustion Technology, Chapter 24**, pp.615-633 in: "Role of Colloidal Systems in the Environmental Protection", Elsevier B.V. 2014, Edited by Monzer Fanun, ISBN: 978-0-444-63283-8.
URL: http://www.sciencedirect.com.ezp.uod.edu.sa/science/book/9780444632838

66. **Porous Media Combustion Technology, Vol.12. Chapter 21** in: "Compendium of Energy Science and Technology" Edited by J.N.Govil, Studium Press LLC. USA (Book under printing).

Conference Proceedings

67. S.F. Shaker, M.Z. Abdullah, M.A. Ismail, M. K. Abdullah, **M.A. Mujeebu**, Modeling of Gas Turbine Blades for Different Cooling Arrangement, Proc. Mechanical Engineering research Colloquium(MERC'08), Universiti Sains Malaysia 27-28 Aug. 2008, Pages 07-13.

68. H. Yusoff, M. Z. Abdullah, Z. M. Kassim, **M. A. Mujeebu**, and M. Khalil, Study of Vortex Shedding between Two Cylinders in Tandem Arrangement using Flexible PIV Technique, Proc. International Conference on Micro electro mechanical Systems (MEMS 08), Anjuman Engineering College, Bhatkal, S.India, 22-23 Oct. 2008.

69. M. O. Saeed, M.N. Hassan, **M Abdul Mujeebu**, Development of Municipal Solid Waste Generation and Recyclable Materials Component Rate for Kuala Lumpur: Perspective Study , Proc. International Conference on Environment (ICENV 2008), G Hotel, Penang, Malaysia, December 15-17, 2008, School of Chemical Engineering, Universiti Sains Malaysia, page-113.

70. M.O. Saeed, M.S. Ahamad, H.A. Aziza, **M Abdul Mujeebu**, Geographic information system (GIS) components for deriving sanitary landfill site weighting criteria, Proc. International Conference on Environment (ICENV 2008), G Hotel, Penang, Malaysia, December 15-17, 2008, School of Chemical Engineering, Universiti Sains Malaysia, page-83.

71. **M.Abdul Mujeebu**, M.Z Abdullah, M.Z. Abu Bakar, A.A. Mohamad, Development of mesoscale premixed porous medium burners for household applications, Proc. Mechanical Engineering research Colloquium(MERC'09), Universiti Sains Malaysia 30 Sep – 02 Oct. 2009, Pages 01- 06.

72. C.Y. Khor, M. Z. Abdullah, **M. Abdul Mujeebu**, F. Che Ani, Numerical simulation of solder ball effect on capillary flow under-fill process in flip chip packaging, Proc. Mechanical Engineering research Colloquium(MERC'09), Universiti Sains Malaysia 30 Sep – 02 Oct. 2009, Pages 25- 31.

73. Sri Raj Rajeswari Munusamy, Khairun Azizi Mohd Azizli, Mohd Zulkifly Abdullah, Syed Fuad Saiyid Hashim, **M. Abdul Mujeebu**, Muhammad Khalil Abdullah 3D modeling and simulation of air jet mill for ultrafine grinding process using CAD and CFD techniques, Proc. of 4th colloquium on post graduate research: National post graduate colloquium on materials, minerals and polymers (MAMIP 2010), Vistana Hotel, Penang, Malaysia, 27-28- Jan. 2010.

74. M.K. Abdullah, M.B. Hashim, M.Z. Abdullah, **M.A. Mujeebu**, K.A. Ahmad, F. Ismail, M. R. Abdul Rahman, N. M. Yusop, Z. Mohd Ripin. Study on piezoelectric fan height on the cooling performance of PLCC electronic package. Proceedings of the 20th National and 9th International ISHMT-ASME Heat and Mass Transfer Conference, January 4-6, 2010, Mumbai, India.

75. Khaleed, M.T.H., **Abdul Mujeebu, M.**, Abdullah, A.B., Irfan Anjum, Magami, Ahmed, N.J. Salman. Flash-less cold forging of connecting rod using computer-aided FE simulation. Proceedings of International Conference on Applications and Design in Mechanical Engineering 2009 (ICADME 2009), 11th - 13th October 2009 at Batu Feringhi, Penang, Malaysia. ISBN: 978-967-5415-07-4. p.10A 1 - 10A 7.

76. Khaleed, H. M.T., Samad, Z., Othman, A.R., **Abdul Mujeebu, M.**, Hussaini A. Abdullah, A.B., Magami I.B., Ahmed, N.J. Salman. Qadir, G.A., Jeevan, K. FEM analysis and experimental validation of flashless cold forging of autonomous underwater vehicle hubs. Proceedings of International Conference on Applications and Design in Mechanical Engineering 2009 (ICADME 2009), 11th - 13th October 2009 at Batu Feringhi, Penang, Malaysia. ISBN: 978-967-5415-07-4. p.10B 1 - 10B 7.

77. C.Y. Khor, **M. Abdul Mujeebu**, A. Jappar, M.S. Aris, M.Z. Abdullah. Three dimensional CFD simulation of non-Newtonian flow for the underfill flow in flip chip packaging. Proceedings of ICFD 10: Tenth International Congress of Fluid Dynamics. December 16-19, 2010, Stella Di Mare Sea Club Hotel, Ain Soukhna, Red Sea, Egypt (ICFD10-EG-3097).

78. C.Y. Khor, M.Z. Abdullah, **M. Abdul Mujeebu**, F. Che Ani. FVM Based Simulations Study of Different Injection Types on Flip Chip Pressurized Underfill Encapsulation Process. Proceedings of 11th International Conference on Electronics Materials and Packaging (EMAP 2009), Penang, Malaysia, 1 – 3 December 2009. Page 67-70.

79. Anwar Al-Mofleh, Soib Taib, **M. Abdul Mujeebu**, Al-Gulman Hamza, W Salah. Approach to Energy Management: USM Practices. Proceedings: GCREEDER 2009, Amman-Jordan, March 31st – April 2nd 2009. Paper No.:- 401-d.

80. C.Y. Khor, **M. Abdul Mujeebu**, A. Jappar, M.S. Aris, M.Z. Abdullah. Numerical simulation of non-Newtonian flow for the underfill process in flip chip packaging. Proceedings of 12th International Conference on Electronics Materials and Packaging (EMAP 2010), October 25-27, 2010, Orchard Hotel, Singapore. Paper No. 67.

INVITED LECTURES

1. **"Mathematical Modeling for Optimal operation of an industrial Cogeneration system"** AICTE – ISTE STTP on "Thermal design of energy systems" NIT Calicut, Jan 2004
2. **"Trigeneration - an effective method of heat recovery"** AICTE – ISTE STTP on "Tools and Techniques for Peak Load Management" NIT, Calicut, Aug 2004
3. **"An introduction to Trigeneration"** Engineers Day Celebration, AEC, Bhatkal, Dec.15,2004
4. **"How to Cope up with the Engineering Curriculum"** Joint Programme of ISTE Students Chapter and Student's Guidance Bureau, AEC, Bhatkal, December 2005.
5. **"Development of Energy Efficient and Clean Porous Medium Burners"** International Workshop on Thermofluids, School of Mechanical Engineering, USM.
   Part of MOU activities between USM and Kumamoto University, Japan, 05th Jan. 2010.
6. **"Confidence Building and Career Improvement Tips"** Jan 2012, Anjuman Institute of Technology and Management, Bhatkal, India
7. **"Study Abroad- Options, Tips and Scholarships"** May 2012, Anjuman Institute of Technology and Management, Bhatkal, India
8. **"Final Year Project, Seminar and Documentation- Objectives, Procedure and Ethics"** May 2012, Anjuman Institute of Technology and Management, Bhatkal, India
9. **"How to Cope up with the Engineering Curriculum"** for 2012-13 UG Batch, Sep 2012. Anjuman Institute of Technology and Management, Bhatkal, India
10. **"Presentation Skills"**, Oct 2012, Anjuman Institute of Technology and Management, Bhatkal, India

RECOGNITIONS

- **Reviewer: International Journals**

1. Journal of Porous Media (Begell House, Inc.)
2. Combustion Science and Technology (Taylor & Francis)
3. Energy & Fuels (American Chemical Society)
4. Energy Exploration and Exploitation (Multi-Science Publishing Co., UK)
5. Environmental Science & Technology (American Chemical Society)

6. Journal of Wood Engineering (Academic Journals)
7. Energy Conversion & Management (Elsevier)
8. Applied Energy (Elsevier)
9. Experimental Techniques (Society for Experimental Mechanics, Inc.)
10. Engineering Applications of Computational Fluid Dynamics
11. Applied Mathematical Modeling (Elsevier)
12. Experimental Thermal and Fluid Science(Elsevier)
13. Biomass & Bioenergy (Elsevier)
14. Combustion and Flame (Elsevier)
15. Chemical Engineering Journal (Elsevier)
16. International Journal of Thermal Sciences (Science Direct)
17. Energy (Elsevier)
18. Arabian Journal of Science and Engineering (King Fahad University of Petroleum and Minerals, Saudi Arabia).
19. Fuel Processing Technology (Elsevier)
20. Journal of Petroleum and Gas Exploration Research(www.interesjournals.org)
21. Journal of the Energy Institute
22. International Journal of Environment and Waste Management(www.interesjournals.org)
23. International Journal of Heat and Mass Transfer (Elsevier)
24. Journal of Applied Mechanical Engineering (OMICS Publishing Group, USA)
25. Journal of Zhejiang University-SCIENCE A
26. Journal of Hazardous Materials (Elsevier)

Reviewer- Research Proposals

- American Chemical Society Petroleum Research Fund (ACS PRF), USA.
- JSC "National Center of Science and Technology Evaluation", Kazakhstan, Russia.
- Chilean National Science and Technology Commission (FONDECYT)

Associate Editor:

1. World Journal of Engineering, Multi-Science Publishing Co., UK

2. International Journal of Control Engineering and Technology (IJCET)

1. International Journal of Energy Engineering

2. Thermal Energy and Power Engineering

3. American Journal of Advanced Scientific Research

4. Advances in Microelectronic Engineering

5. Advances in Energy Research (ERi), An International Journal

6. International Journal on Heat and Mass Transfer - Theory and Applications (IREHEAT)
7. Energy Science and Technology (EST) (Published by: Canadian Research & Development Center of Sciences and Cultures)

- **Nominations:**

a. Marquis "Who's Who in the World" 2011 edition
b. Marquis "Who's Who in the World" 2012 edition
c. Marquis "Who's Who in the World" 2013 edition
d. Marquis "Who's Who in the World" 2014 edition
e. Marquis "Who's Who in the World" 2015 edition

- **Awards:**

a. "Sanggar Sajung" (Hall of Fame) award for excellence in publishing, from Universiti Sains Malaysia, in 2008, 2009, 2010 and 2011.
b. Honorarium from "Elsevier Science" for the publication: **"Trends in modeling of porous media combustion"**, Progress in Energy and Combustion Science 36 (2010) 627-650.

- **Scientific committee member:**

a. 10th International Conference on Sustainable Energy Technologies SET 2011, Instabul, Turkey, 4-7 September 2011.
b. Second International Conference on Electric Information and Control Engineering (ICEICE 2012), Apr. 6-8, 2012, Lushan , China.
c. 5th International conference on Applications of Porous media 2013- ICAPM2013 (http://www.cs.ubbcluj.ro/~icamp2013/)
d. 4th International Conference on Nuclear and Renewable Energy Resources (NURER2014), Antalya, Turkey, 26-29 October 2014. (http://nurer2014.org/?page=committees)

- **Steering Committee Member**

WAP Conference Series: Information Science and Technology
http://www.academicpub.org/ist/Committee.aspx

- **Resource person**

Sole Mentor for two days national level workshop on **"Research, Writing and Publishing"** at Anjuman Institute of Technology and Management-Bhatkal, India, on 29-30 Dec 2012.

External Expert – European Commission

Recognized as external expert for the Research & Innovation program of European Commission

Expert ID = EX 2006C184328

SHORT TERM COURSES / WORKSHOPS/ CONFERENCES ATTENDED

1. AICTE – ISTE STTP on "Thermal design of energy systems" Jan (5-16) 2004, NIT Calicut.
2. AICTE – ISTE STTP on "Tools and Techniques for Peak Load Management" August (16-28) 2004, NIT Calicut.
3. Workshop on "Alternative Refrigerants and Cycles" sponsored by Swiss agency for development and cooperation, New Delhi, under HIDECOR project, September (10 – 12) 2004, NITK Surathkal, Karnataka.
4. National Workshop on "Energy efficiency for sustainable development", December (15) 2004, Anjuman Engineering College, Bhatkal, Karnataka.
5. Fifth Indo-Swedish Workshop on"BIOFUEL CONVERSION".Dec-14 – 16, 2005. Indian Institute of Technology, Madras.
6. National Conference on "Biodiesel as Biofuel"July-8, 2005. Urban Health &Research Institute. Bangalore.
7. One day Work Shop on Rapid Prototyping, Hotel Park Royal, Penang, Malaysia, Dec. 12, 2007
8. One day Work Shop on Occupational Safety, Universiti Sains Malaysia.
9. "First International Workshop on Green Nanotechnology-2012" Nov 26-27, VTU Belgaum, India.

SUBJECTS TAUGHT/TEACHING

Basic Thermodynamics, Applied Thermodynamics, Heat and Mass Transfer, Refrigeration and Air Conditioning, Cryogenics, Power plant Engineering, Engineering System Design, Research Methodology, Technical Writing, etc.

DEVELOPMENTAL ACTIVITIES

Anjuman Institute of Technology and Management Bhatkal, India

- Designed and fabricated variable compression ratio two stroke petrol engine test rig for IC engines lab at Anjuman Institute of Technology and Management Bhatkal, India.
- Designed and fabricated shell and tube heat exchanger test rig with fluid interchange facility for Heat Transfer Lab.
- Designed a Biogas Plant for the college hostel which works on hostel waste and conducted a feasibility study by fabricating a mini Bioreactor.

- Conducted industrial case- studies to study the feasibility of biomass-based captive power plant with cogeneration for typical process industries through Industry – Institute interaction program.

Universiti Sains Malaysia (Science university of Malaysia), Malaysia

- Established "Porous Media Combustion Laboratory" at the School of Mechanical Engineering

RESEARCH SUPERVISION

	Thesis Title	Level of supervision	Status
PhD	Experimental and Numerical Investigations on The Performance of Multi Piezoelectric Fan for Electronic Cooling Application	Co-supervisor	Completed
	Experimental Thermal Analysis and Numerical Characterization of Working Fluid, of Vertical and Horizontal Heat Pipes for Computer Cooling Applications	Co-supervisor	Completed
	FSI Analysis on Wire-sweep in PGBA Encapsulation	Co-supervisor	Completed
	Experimental Study on Thermoelectric Power Generation using Porous Medium Combustion Technique	Co-supervisor	Completed
	Feasibility Study and Development of Exergetic, Exergoeconomic and Exergoenvironmental Models for Trigeneration Schemes in the Indian Building Sector	Main Supervisor	Ongoing
	Characterization and Optimization of Preformed Yarn of Carbon-Carbon Composite: FE Simulation and Experiment	Main Supervisor	Ongoing
	FEM Simulation and Experimental Validation of Flash-less Cold Forging for Producing AUV Propeller Blade	Co-supervisor	Ongoing
MSc Engg.	Finite Volume based Numerical Modeling and Simulation to Maximize the Performance of Solar Absorption Cooling System	Main Supervisor	Ongoing
	FEM Simulation and Optimization of Flash-less Cold Forging of complex geometries	Co-Supervisor	Ongoing

THESIS EXAMINATION

SL No.	Thesis Title	PhD/MTech/ MSc	University/ Institution
1	Study of Dynamic Behavior of Fuel Sub-Assemblies of Fast Breeder Reactors	M Tech	Manipal Institute of Technology, India
2	CFD Characterization of Bubble Dynamics and Bubble Collapse Mechanisms	M Tech	Manipal Institute of Technology, India
3	Investigation of Hydrogen Bubble Generation and its Movement in Liquid Sodium due to Sodium-Steam Reaction	M Tech	Manipal Institute of Technology, India
4	Convective Heat Transfer in Porous Annulus	PhD	University of Malaya, Malaysia

RESEARCH PROJECTS

No	Title	Funding Source	Amount	Status
1	Development of premixed LPG porous medium burners (Co-investigator)	Universiti Sains Malaysia, under "Students Research Promotion Grant"	USD 4000	completed
2	Prototype Development of Porous Medium Burner for Household Applications (Jointly with University of Science, Malaysia) (Co-investigator)	The Prototype Development Research Grant Scheme, Ministry of Higher Education, Malaysia	USD 44,360	Completed
3	Selection of Construction Material based on Life Cycle Costing Technique (Co-investigator)	University of Hail Saudi Arabia	SR 100,000	In progress

MEMBERSHIPS

- International Association of Engineers (IAENG- 64513)
- Indian Society for Technical Education (ISTE- LM 43176)
- American Chemical Society (No. 30048735)
- IAENG Society of Mechanical Engineering

INDEPENDENT VOLUNTARY ACTIVITIES

Training & Consultancy for Research, Writing and Publishing

Offers hands on training and consultancy editing and shaping of dissertations, research proposals and research articles, to institutions, personal and online (glimpses of my presentations in a recent workshop in India is attached)

International Research Establishment for Energy and Environment (IREEE)

Established International Research Establishment for Energy and Environment (IREEE) in the year 2014 with a group of enthusiastic researchers who are active in the field of energy and environment. The prime motive of IREEE is to carry out constructive research and collaborative activities by integrating scientists and researchers around the globe, with a view to address diverse scientific and technical challenges within the broad domains of Energy and Environment. More details are available at the website (www.ireee.net).

International Journal of Advanced Thermofluid Research (IJATR)

International Journal of Advanced Thermofluid Research (IJATR) is the first prestigious scholarly publication of IREEE, and it has been emerged out of the need for a fast responding, high quality journal in which the innovations in Energy, Thermodynamics, Heat transfer and Fluid Flow are brought under one umbrella. The journal will serve as a forum for practitioners, researchers and managers to share their knowledge and experience in the design, development, implementation, management and evaluation of various thermofluid applications. More details are available at the website (www.ijatr.org).