

## BRIEF CV



**Ir. Dr. Asnul Hadi B. Ahmad**

**P.Eng, MIEM**

Senior Lecturer,  
Faculty of Mechanical Engineering,  
Universiti Malaysia Pahang,  
26600 Pekan, Pahang, MALAYSIA  
Tel: 609-4242213, Fax: 609-4242202  
Mobile: 6019-9869880  
Email: [asnul@ump.edu.my](mailto:asnul@ump.edu.my) , [asnul\\_hadi@yahoo.com](mailto:asnul_hadi@yahoo.com)



### Academic Qualifications

- PhD. School of Mechanical and Manufacturing Engineering| Dublin City University | 2015
- M. Eng. Manufacturing Systems | Univ. Putra Malaysia | 2008
- B. Eng. Manufacturing (Mfg Processes) | Univ. Technical Malaysia Melaka | 2006
- Cert. Eng. Mechanical (Manufacturing) | Polytechnic K. Bharu| 2002

### Working Experiences / Appointment

- Senior Lecturer Faculty of Mechanical Engineering, Universiti Malaysia Pahang | May 2015 – Current
- Lecturer at Faculty of Mechanical Engineering, Universiti Malaysia Pahang | Feb 2009 – April 2015
- Post Graduate at School of Mechanical & Mfg. Engineering, Dublin City University | 2011 - 2015
- Industrial Attachment at Asturi Metal Builders (M) Sdn Bhd | June 2010 – Jan 2011
- Tutor at Faculty of Mechanical Engineering, Universiti Malaysia Pahang | Feb 2007 – Feb 2009
- Research and Development Engineer at Perodua Manufacturing Sdn Bhd | Augt 2006 – Jan 2007

### Expert Area

- Manufacturing Processes
- Metal Casting
- Semi-solid Metal Processing

### Research Area / Research Interest

- Metal casting of non-ferrous material
- Thixoforming of wrought alloys

### Position

- CEO Manufacturing Focus Group of FKM | 2018 – Present
- Industrial Training Coordinator | Academic Committee of FKM | 2015 - Present
- Entrepreneurship Coordinator | Academic Committee of FKM | 2015 - 2016
- Committee Members | Information Committee of FKM | 2009 – 2011
- Committee Members | Manufacturing Processes Focus Group of FKM | 2011 - Present
- Committee Members | Industrial Advisory Panels Committee of FKM | 2010 – 2011
- Committee Members | Technical Committee of FKM | 2010 – 2011
- Committee Members | Research and Development Committee of FKM | 2009 – 2010
- Sport Coordinator | Staff Welfare and Sport Committee of FKM | 2009 – 2010
- Committee Members | Publication Committee of FKM | 2009 – 2010
- Information Coordinator | Information Committee of FKM | 2009 – 2010
- Committee Members | Research and Post-Graduate Committee of FKM | 2009 – 2010
- Committee Members | Academic Committee of FKM | 2009 - 2010
- PSM Coordinator | Academic Committee of FKM | 2009 - 2010

## Professional Qualification / Membership / Affiliation / Experience

- Professional Engineer | Board of Engineer of Malaysia (BEM) (No. PE18326)
- Corporate Membership | Institution Engineer of Malaysia (IEM) (No. 26041)
- Secretary | Graduate and Student Institution Engineer of Malaysia (IEM) Caw. Timur | (2010-2011)
- Vice President | Malaysian Postgraduate Student in Ireland (MyPSI) Society | (2012-2013)

## Teaching Experience

- **Year 2017**
  - BMM 1811 Mechanical Laboratory 1, 1 credit
  - BMM3611 Manufacturing Processes Lab, 1 credit
  - BMM 3643 Manufacturing Processes, 3 credits
  - BMM 3996 Industrial Training, 6 credits
- **Year 2016**
  - MME 6134 Advanced Manufacturing, 4 credits
  - BHM 2403 Manufacturing Processes 1, 3 credits
  - BHA 2403 Manufacturing Processes, 3 credits
  - DMM 2632 Industrial Design, 2 credits
  - BMM 1811 Mechanical Laboratory 1, 1 credit
  - BMM 3611 Manufacturing Processes Lab, 1 credit
  - BMM 3643 Manufacturing Processes, 3 credits
  - BMM 3996 Industrial Training, 6 credits
- **SEPT 2014/2015**
  - MME 6134 Advanced Manufacturing, 4 credits
  - BMM3643 Manufacturing Processes, 3 credits
  - BMM1533 Strength of Material 1, 5 credits
  - BMM1543 Strength of Material 2, 5 credits
- **SEPT 2012/2013**
  - EM106 Project & Technical Drawing, 5 credits
- **DEC 2010/2011**
  - BMM1821 Mechanical Laboratory 2, 1 credits (200 students)
  - DMM2633 Manufacturing Technology, 3 credits (40 students)
- **DEC 2009/2010**
  - BMM3611 Manufacturing Processes Laboratory, 1 credits (240 Students)
  - DMM2932 Mechanical Technology Lab 3, 2 credits (31 students)
  - BMM4914 Final Year Project 2, 2 credits (7 Students)
  - BMM4999 Industrial Training, 9 credits (8 students)
  - BMM4993 Industrial Training Report, 3 credits (8 students)
- **DEC 2008/2009**
  - BMM1432 Electrical Technology, 2 credits (240 Students)
  - BMM3912 Final Year Project 1, 2 credits (7 Students)
  - BMM4999 Industrial Training, 9 credits (8 students)
  - BMM4993 Industrial Training Report, 3 credits (8 students)
- **JUL 2007/2008**
  - BMM 2521 Mechanic Lab 2 (240 Students)
  - Final Year Project, 3 credits (2 Students)
- **DEC 2006/2007**
  - DMM 1512 Computer Aided Mechanical Design (70 Students)
  - BMM 2533 Fluids Mechanics 1 (100 Students)
  - BMM 2543 Fluids Mechanics 2 (100 Students)

## Post Graduate Supervision

No.	Academic Year	Name of Student	Student ID	Title of Project
1.	2016-2018	Benjunior Bindamin	MMM16002 (Master)	Microstructure and mechanical characterization of semisolid metal components for wrought aluminium alloys
2.	2017-2020	Nor Hanisah Binti Husain	PMM17001 (PhD)	Characterization of 6061 wrought aluminium alloy behaviour via semisolid metal processing method
3	2017- 2020	Nur Azhani Binti Abd Razak	PMM17004 (PhD)	Rheological behaviour and mechanical properties of wrought aluminium alloy produced via semisolid metal processing route

## Degree Final Year Project Supervision

No.	Academic Year	Name of Student	Student ID	Title of Project
1.	2017-2018	Nik Muhammad Hasbi Bin Che Harun		Effect of temperature on quality of aluminium alloy feedstock billets using rapid cooling
2.	2017-2018	Aiman Asyraf Bin Abdullah Hashim		Effect of temperature on quality of aluminium alloy feedstock billet using cooling slope method
1.	2016-2017	Thinnieshkumaran A/l Ruggarudee		Investigation of semisolid metal flow inside forming die during thixoforming operation
2.	2016-2017	Khairi Azizi Kamal Hadri		Design and development of die forming for wrought aluminium forming operations
3.	2016-2017	Mohammad Haffiz Bin Ismail		Investigation of direct thermal method feedstock billet quality thixoforming operation
4.	2015-2016	Anith Farhana Bt Harith		Thermal profiles of aluminium 6061
5.	2015-2016	Muhammad Ridzuan		Effect of Different Cooling Conditions on Microstructure of Aluminium A356
6.	2015-2016	Muhammad Amirrul Nazrin		Effects of Pouring Temperature and Holding Time on Aluminium 6061 Feedstock Billet
7.	2012-2013	Aaron O'Neil	DCU	Thermal Analysis of Aluminium 7075
8.	2009-2010	Tong Woei Tze	ME07020	Investigation of Grey Cast Iron Microstructure and Mechanical Properties Using Metal Casting Process
9.	2009-2010	Geetha Muniandy	ME07011	Investigation of Malleable Cast Iron Microstructure and Mechanical Properties Using Metal Casting Process
10.	2009-2010	Muhammad Saiful Azzam	ME07035	Investigation of White Cast Iron Microstructure and Mechanical Properties Using Metal Casting Process
11.	2009-2010	Wong Yin Ying	ME07062	Investigation of Aluminium Silicon Alloys Microstructure and Mechanical Properties Using Metal Casting Process
12.	2009-2010	Nur Hamizah Minhat	ME08009	Investigation of Brass Microstructure and Mechanical Properties Using Metal Casting Process
13.	2008 - 2009	Toh Ban Sheng	ME0644	Reverse Engineering of Mobile Phone Casing
14.	2008 - 2009	Mohd Aliff Mohd Radzi	ME07006	Design and Manufacture of Two Plate Mould
15.	2008 - 2009	Siti Dermira Arifin	ME06032	Design and Manufacture of Three Plate Mould
16.	2008 - 2009	Ahmad Zulhelmi Muhamad	ME06011	Mould Design for Plastic Injection Moulding Process (2 colours)
17.	2008 - 2009	Muhammad Badrul Hisyam Mahmood	ME06056	Warping Defect on Injection Moulding Process using Different Raw Materials
18.	2008 - 2009	Mohd Nazri Noordin	ME06054	Sink Mark Defect on Injection Moulding Process using Different Raw Materials
19.	2008 - 2009	Mohammad Said Alias	MH06040	Design and Manufacture a Motorized Bicycle

## Diploma Final Year Project Supervision

No.	Academic Year	Name of Student	Student ID	Title of Project
1	2010-2011	Amirul Syazwan B Hj Omar	MB08082	Design and Manufacture the Top Head of Diesel Furnace
2	2010-2011	Muhammad Muizzuddin B Yusof	MB08064	Design and Manufacture the Shell of the Diesel Furnace-Case 1
3	2010-2011	Tuan Mohd Shakir B Abu Bakar	MB08085	Design and Manufacture the Shell of the Diesel Furnace-Case 2
4	2010-2011	Amirul Hamzah B Zainuddin	MB08079	Design and Manufacture the Gearing & Burning Systems of the Diesel Furnace
5	2006 - 2007	Norfarahanim Bt Muhamad		Ceiling Fan Blade Cleaner
6	2006 - 2007	Eddy Ahmadi Azizi B. Sukiman		Can Crusher

## List of Publications

### Book Chapter

1. **A.H. Ahmad**, S. Naher, S.N. Aqida and D.Brabazon, Routes to spheroidal starting material, Chapter 5, Volume 5 in Comprehensive Materials Processing Technology, Elsevier, Ed. S. Hashmi, pp 135-148, 2014.
2. **A.H. Ahmad**, Semi solid processing technology, Chapter 7 in The advancement in manufacturing processes and technology, Lambert academic publishing, pp 90-104, 2017.

### International and National Journal

1. N.A. Razak, **A.H. Ahmad**, Maarof Mohd. Rashidi, Preparation of aluminium 7075 feedstock billets via direct thermal method for semisolid metal processing, Journal of manufacturing Processes, 2018 (under review)
2. B.Benjunior, **A.H. Ahmad**, Maarof Mohd. Rashidi, M.S. Reza, Effect of different cooling rates condition on thermal profile and microstructure of aluminium 6061, Procedia Engineering 184, pp 298-305, 2017.
3. B.Benjunior, **A.H. Ahmad**, Maarof Mohd Rashidi, Semisolid metal processing methods to produce globular microstructure, International Journal of Automotive and Mechanical Engineering, 2016 (under review).
4. **A.H. Ahmad**, S. Naher and D. Brabazon, Mechanical properties of thixoformed 7075 feedstock produced via the direct thermal method, Key Engineering Materials, 2015.
5. **A.H. Ahmad**, S. Naher and D. Brabazon, Direct thermal method of aluminium 7075, Advanced Materials Research, Vols. 939, pp 400-408, 2014.
6. **A.H. Ahmad**, S. Naher and D. Brabazon, The effect of direct thermal method, temperature and time on microstructure of a cast aluminium alloy, Materials and Manufacturing Processes, 29: pp 134-139, 2014.
7. **A.H. Ahmad**, S. Naher and D. Brabazon, Injection tests and Effect on Microstructure and Properties of Aluminium 7075 Direct Thermal Method Feedstock Billets Key Engineering Material, Vols. 611-612, pp 1637-1644, 2014.
8. **A.H. Ahmad**, S. Naher and D. Brabazon, Effects of cooling rates on thermal profiles and microstructure of aluminium 7075. International Journal of Automotive and Mechanical Engineering, Vols. 9, pp 1685-1694, 2014.
9. **A.H. Ahmad**, S. Naher and D. Brabazon. The Effect of Direct Thermal Method temperature and Time on Microstructure of a Cast Aluminium Alloy, Materials and Manufacturing Processes 29: pp 134-139, 2014.
10. M. Ishak, A. Amir, **A.H. Ahmad**, Effect of solution treatment temperature on microstructure and mechanical properties of A356 alloy, Vols. 8, pp 289 -295, 2014.
11. **A.H. Ahmad**, S. Naher and D.Brabazon, Thermal profiles and fraction solid of aluminium 7075 at different cooling rate conditions, Key Engineering Material, Vols. 554-557, pp 582-595, 2013.
12. Thet T Mon, Khairul F Muhammad, **A.H. Ahmad**, Zazuli Mohid, Experimental Micromachining of Silicon with Nd-YAG laser, Applied Mechanics and Materials, 83, pp 244-248. 2011.

## International and National Conference Papers

1. N.H. Husain, **A.H. Ahmad**, M.M. Rashidi, An overview of thixoforming process, 4<sup>th</sup> International conference on mechanical engineering research, Kuantan, 01-02 August 2017.
2. N.A. Razak, **A.H. Ahmad**, M.M. Rashidi, Investigation of pouring temperature and holding time for semisolid metal feedstock production, 4<sup>th</sup> International conference on mechanical engineering research, Kuantan, 01-02 August 2017.
3. N A N Dandang, W S W Harun, N Z Khalil, **A.H. Ahmad**, F R M Romlay, N A Johari, Paraffin wax removal from metal injection moulded cochromo alloy compact by solvent debinding process, 4<sup>th</sup> International conference on mechanical engineering research, Kuantan, 01-02 August 2017.
4. Firdaus Basrawi, **Asnul Hadi Ahmad**, Daing Mohamad Nafiz Daing Idris, Mohd Rashidi Maarof, MRR Chand, Ahmad Syazwan Ramli, Engineering economic analysis of meliponiculture in Malaysia considering current market price, UTP-UMP Symposium on Energy Systems 2017, Universiti teknologi Petronas, 25 October 2017.
5. B. Benjunior, **A.H. Ahmad**, Maarof Mohd Rashidi, M.S.Reza, Advances in Materials and Processing Technologies Conference, Kuala Lumpur, 08<sup>th</sup> – 11<sup>th</sup> November 2016.
6. **A.H. Ahmad**, S. Naher and D. Brabazon, Mechanical properties of thixoformed 7075 feedstock produced via the direct thermal method. 18<sup>th</sup> annual ESAFORM Conference on Material Forming, Graz, Austria, 15<sup>th</sup> to 17<sup>th</sup> April 2015.
7. **A.H. Ahmad**, S. Naher and D. Brabazon, Injection tests and Effect on Microstructure and Properties of Aluminium 7075 Direct Thermal Method Feedstock Billets. 17<sup>th</sup> annual ESAFORM Conference on Material Forming, Espoo, Finland, 07<sup>th</sup> – 09<sup>th</sup> May 2014.
8. **A.H. Ahmad**, S. Naher and D. Brabazon, Direct thermal method of aluminium 7075. The 16<sup>th</sup> International Conference on Advances in Materials & Processing Technologies, National Taiwan University of Science and Technology, Taiwan, 22<sup>nd</sup> – 26<sup>th</sup> September 2013.
9. **A.H. Ahmad**, S. Naher and D. Brabazon, Effects of cooling rates on thermal profiles and microstructure of aluminium 7075. International Conference on Mechanical Engineering Research, Universiti Malaysia Pahang, Malaysia, 1<sup>st</sup> – 3<sup>rd</sup> July 2013.
10. M. Ishak, A. Amir and **A.H. Ahmad**, Effect of solution treatment temperature on microstructure and mechanical properties of A356 alloy. International Conference on Mechanical Engineering Research, Universiti Malaysia Pahang, Malaysia, 1<sup>st</sup> – 3<sup>rd</sup> July 2013.
11. **A.H. Ahmad**, S. Naher and D. Brabazon, Thermal Profiles and Fraction Solid of Aluminium 7075. Different Cooling Rate Conditions. 16<sup>th</sup> Annual European Scientific Association for Material Forming Conference. 22<sup>nd</sup>-24<sup>th</sup> April 2013, Aveiro, Portugal.
12. **A.H. Ahmad**, S. Naher and D. Brabazon, Effects of Direct Thermal Method Temperature and Time on A356 Microstructure. International Conference on Advances Materials and Processing Technologies (AMPT12), 23-26 September, Wollongong, Australia, 2012.
13. **A.H. Ahmad**, S. Sahudin and M.S. Reza, Effects of Degassing Agent to Mechanical Properties and Microstructure of Aluminium Silicon Alloys. International Conference in Mechanical Engineering for Research & Postgraduate Studies (NCMER 2011), 5<sup>th</sup> December 2011, Universiti Malaysia Pahang, 2011.
14. **A.H. Ahmad** and A.B.S. Alias, Design of A New Heat Regulator System In Diesel Furnace. International Conference in Mechanical Engineering for Research & Postgraduate Studies (NCMER 2011), 5<sup>th</sup> December 2011, Universiti Malaysia Pahang, 2011.
15. Thet Thet Mon, Khairul Fikri Muhammad, **A.H. Ahmad** and Zazuli Muhid, Experimental Micromachining of Silicon with ND-YAG Laser, The International Conference on Experimental Mechanics (ICEM2010), 29<sup>th</sup> – 01<sup>st</sup> December 2010, Kuala Lumpur, Malaysia.
16. Thet Thet Mon, Zakri Ghazalli, **A.H. Ahmad**, Mohd Fazli Ismail and Khairul Fikri Muhamad, Design of Electrostatic Comb Actuators Based on Finite Element Method, International Conference on Enabling Science and Nanotechnology (Nanotech Malaysia 2010), 01<sup>st</sup>-03<sup>rd</sup> December 2010, KLCC, Malaysia.
17. K.B. Soon, M.R. Maarof, Z.A. Zakaria, S. Sahudin, M.A. Hanafiah, **A.H. Ahmad** and M.H. Idris, The Investigation of In Ladle Treatment Method For High Sulphur Pig Iron to Produce Ductile Iron, National Conference in Mechanical Engineering for Research & Postgraduate Studies (NCMER 2010), 26<sup>th</sup> May 2010, ISBN:978-967-5080-95-1, Universiti Malaysia Pahang.
18. K.B. Soon, M.R. Maarof, Z.A. Zakaria, S. Sahudin, M.A. Hanafiah, **A.H. Ahmad** and M.H. Idris, The Investigation of Processing Parameter for In Ladle Treatment Using High Sulphur Pig Iron, National Conference in Mechanical Engineering for Research & Postgraduate Studies (NCMER 2010), 26<sup>th</sup> May 2010, ISBN:978-967-5080-95-1, Universiti Malaysia Pahang.
19. **A. H. Ahmad**, Z. Leman, M. A. Azmir, M. R. M. Akramin, Optimum Process Parameters To Minimize Shrinkage Defect Using ABS Material, International Conference on Advances Materials and Processing Technologies (AMPT09), 26<sup>th</sup> -29<sup>th</sup> October 2009, Kuala Lumpur, Malaysia.
20. M.R.M. Akramin, M. Mazwan Mahat, A. Juliawati, **A.H. Ahmad**, Uncertainty Analysis of Reliability Prediction for Cracked Structure, International Conference on Applications and Design in Mechanical Engineering (ICAD09), 11<sup>th</sup> – 13<sup>th</sup> October 2009, Bayview Beach Resort, Penang Malaysia.
21. W.S.W. Harun, **A.H. Ahmad**, M.M. Noor, K. Kadirgama, S. Sharif, M.H. Idris, Evaluation of ABS Patterns Produced from FDM for Investment Casting Process”, Waset Conference, 17<sup>th</sup> – 19<sup>th</sup> June 2009, United Kingdom.

22. **A.H. Ahmad**, Z. Leman, M. A. Azmir, K. F. Muhamad, W.S.W. Harun, A. Juliawati, A.B.S Alias, Optimization of Warpage Defect on Injection Moulding Process Using ABS Material, Asia Modelling Symposium (AMS09), 25<sup>th</sup> – 26<sup>th</sup> May 2009, UNPAR, Bandung Indonesia.

### List of Consultancy

1. **EDM-Wire Cut Machining** – ASTURI Metal Builders (M) Sdn Bhd Lot 74-A, Jalan Gebeng 1/6, Gebeng Industrial Estate, 26080 Kuantan, Pahang, Malaysia. Tel: 609-5833888 Fax: 609-58333999 (Aug. 2011).
2. **Investigation of Weld Overlay Impact to 14" Flange Mechanical Properties (Consignment No. 0216)**- ASTURI Metal Builders (M) Sdn Bhd. Lot 74-A, Jalan Gebeng 1/6, Gebeng Industrial Estate, 26080 Kuantan, Pahang, Malaysia. Tel: 609-5833888 Fax: 609-5833999 (Oct. 2010).

### List of Research / Project

1. Development Of A High Temperature Viscometer For Semisolid Metal Processing as **Group Leader & Researcher**, Grant Amount RM35,750, RDU1603125 (Oct 2016 – Oct 2018)
2. Investigation Of Thixoforming Process To Enhance Mechanical Properties For Automotive Components Production as **Group Leader & Researcher**, Grant Amount RM26,780, RDU160311 (Apr 2016 – Apr 2018)
3. Microstructure And Mechanical Characterization Of Semisolid Metal Components For Wrought Aluminium Alloys as **Group Leader & Researcher**, Grant Amount RM57,500, RDU151412 (Dec 2015 – Nov 2017)
4. Investigation of Material Integrity for Transportation Industry as **Group Leader & Researcher**, Grant Amount RM5,500, RDU151108 (Aug 2015 – Aug 2016).
5. Developments of Diesel Furnace for Non Ferrous Materials With Capacity of 100kg Molten Metal as **Group Leader & Researcher**, Grant Amount RM40, 000, RDU100347 (Jun 2010 – Dec 2011).
6. Experimental Laser-Micromachining of MEMS as **Researcher**, Grant amount of RM32, 500, RDU 090370, (May 2009 – April 2011).
7. Development of Probabilistic Analysis for Cracked Structures Using Finite Element Method as **Researcher**, Grant amount of RM39, 688, RDU 090362 (May 209 – Mac 2010).
8. Analysis of Flow and Solidification of Casting Process as **Researcher**, Grant amount of RM38, 300 RDU090353 (May 2009 - July 2010).

### Research Achievements / Awards

1. **Cendiabitara Award** | Universiti Malaysia Pahang 2013.
2. **Gold Medal** | 12<sup>th</sup> The British Invention Show (BIS2012), London, United Kingdom, Heat Regulator System in a Furnace
3. **Gold Medal** | 23<sup>rd</sup> International Invention, Innovation and Technology Exhibition (ITEX2012), Kuala Lumpur, Heat Regulator System in a Furnace
4. **Silver Medal** | Creation, Innovation, Technology and Research Exposition Competition (CITREX2012) UMP, Heat Regulator System in a Furnace
5. **Bronze Medal** | Creation, Innovation, Technology and Research Exposition Competition (CITREX2011) UMP Heat Regulator System in a Furnace

### Patent

1. **Heat Regulator System in a Furnace**, Application's File: PTA3.47, Application No: PI2011003946 Patented in Malaysia 2011.

### List of Course / Conference Attended

Date	Program	Status
22 <sup>nd</sup> – 26 <sup>th</sup> Sept. 2013	International Conference on Advances in Materials & Processing Technologies (AMPT13), National Taiwan University of Science and Technology, Taiwan	Participant
1 <sup>st</sup> – 3 <sup>rd</sup> July 2013	International Conference on Mechanical Engineering Research (ICMER2013) University Malaysia Pahang, Malaysia	Participant
24 <sup>th</sup> – 26 <sup>th</sup> Sept 2012	International Conference on Advances in Materials & Processing Technologies (AMPT12) Wollongong, Australia	Participant

10 <sup>th</sup> July 2012	Out of Hours Training Course (DCU), Ireland	Participant
25 <sup>th</sup> May 2012	APDIC 4 <sup>th</sup> World Round Robin Seminar, IOM3 London, UK	Participant
22 <sup>nd</sup> March 2012	Perfect Your Presentation Skills (DCU), Ireland	Participant
08 <sup>th</sup> Mar – 10 <sup>th</sup> May 2012	Intellectual Property and Commercialisation (DCU), Ireland	Participant
31 <sup>st</sup> Jan 2012	Safelab Module (DCU), Ireland	Participant
23 <sup>rd</sup> – 27 <sup>th</sup> Jan 2012	LabVIEW, Data Acquisition, Data Analysis and Control (DCU), Ireland	Participant
June 2011	'Pertandingan Rekacipta Politeknik Dungun'	Panel
30 <sup>th</sup> Oct 2010	Industrial Talks, (UMP)	Speaker
27 <sup>th</sup> Oct 2010	'Demonstration of Software Organized by IEM Caw. Timur'	Participant
22 <sup>nd</sup> July 2010	'Teknikal Visit to MTBE, Gebeng Organized by IEM Caw. Timur'	Participant
18 <sup>th</sup> June 2010	'Teknikal Visiti to Kuari Bkt Pengorak Organized by IEM Caw. Timur'	Participant
02 <sup>nd</sup> June – 02 <sup>nd</sup> Dec 2010	Industrial Attachment	Participant
26 <sup>th</sup> May 2010	National Conference in Mechanical Engineering for Research & Postgraduate Studies (NCMER 2010)	Participant
17 <sup>th</sup> – 21 <sup>st</sup> May 2010	Basic Casting Technology (Pattern Making)2010- Part 2	Participant
12 <sup>th</sup> Mar 2010	Review UMP and FKM Research Grant Application	Participant
06 <sup>th</sup> Mar 2010	Industrial Talk by Ir. Rashidi	Participant
20 <sup>th</sup> - 23 <sup>rd</sup> Mar 2010	Laser Project- Collaboration with UTHM	Participant
18 <sup>th</sup> - 19 <sup>th</sup> Feb 2010	Research Collaboration with UTM and UTHM	Participant
25 <sup>th</sup> - 28 <sup>th</sup> Jan 2010	Basic Casting Technology (Pattern Making) 2010- Part 1	Participant
09-10 Jan 2010	Bengkel Pemurnian Kurikulum dan Akademik FKM Siri 1/2010	Participant
14 <sup>th</sup> - 16 <sup>th</sup> Dec 2009	Bengkel Pengenalan Dan Audit Dalaman ISO 9001:2008	Participant
27 <sup>th</sup> - 29 <sup>th</sup> Oct 2009	Fundamental of Die Casting Process, SIRIM	Participant
26 <sup>th</sup> Oct 2009	Advances Materials and Processing Technology 2009, UIAM	Participant
03 <sup>rd</sup> – 12 <sup>th</sup> Oct 2009	Course in Basic Induction Technology 2009, Ahmedabad India	Participant
09 <sup>th</sup> Sept 2009	Training on Diesel Furnace (100KG)	Participant
27 <sup>th</sup> – 28 <sup>th</sup> Aug 2009	Training on Spectrometer Machine	Participant
23 <sup>rd</sup> Aug 2009	Grooming For Interview Workshop	Evaluator Panel
28 <sup>th</sup> - 30 <sup>th</sup> July 2009	Fundamentals of Sand casting Processes Course	Participant
21 <sup>st</sup> – 22 <sup>nd</sup> July 2009	BEM Mandatory Course on Code of Ethics/Regulations	Participant
04 <sup>th</sup> - 05 <sup>th</sup> June 2009	Training Workshop on MSISO/IEC 17025:2005 Management System (Session 2)	Participant
25 <sup>th</sup> – 26 <sup>th</sup> May	Asian Modelling Symposium 2009, Bandung Indonesia	Participant

2009		
21 <sup>st</sup> – 23 <sup>rd</sup> May 2009	Training Workshop on MSISO/IEC 17025:2005 Management System (Session1)	Participant
19 <sup>th</sup> May 2009	Introductory Training on MoldFlow Plastic Advisor Software (MPA) at UMP	Participant
12 <sup>th</sup> - 13 <sup>th</sup> May 2009	Journal Publication Course by A. Prof. Dr. Norzaidi M. Daud (UiTM Shah Alam) at UMP.	Participant
13 <sup>th</sup> , 24 <sup>th</sup> & 26 <sup>th</sup> Mar 2009	Review UMP and FKM Research Grant Application	Participant
14 <sup>th</sup> - 15 <sup>th</sup> Mar 2009	Fac. of Mechanical Engineering Solidwork Basic Training, at UMP.	Trainer