

## BRIEF CV



### **Mohd Fadhlán bin Mohd Yusof**

Lecturer,  
Faculty of Mechanical Engineering,  
Universiti Malaysia Pahang,  
Tun Razak Highway, 26300 Gambang,  
Kuantan, Pahang, MALAYSIA.  
Tel: 609-5496319, Fax: 609-5492244  
Email: [fadhlán@ump.edu.my](mailto:fadhlán@ump.edu.my) , [mfyald@yahoo.com.my](mailto:mfyald@yahoo.com.my)



**Universiti  
Malaysia  
PAHANG**  
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### Academic Qualifications

1. B.Eng. (Hons) Mechanical Engineering (Mechanical), UTM, 2008.
2. Master in Science (Mechanical Engineering), UKM, 2012

### Working Experiences / Appointment

1. Nov 2012~ present                      Lecturer, FKM, Universiti Malaysia Pahang.
2. Sep 2008~ Nov 2012                    Tutor, FKM, Universiti Malaysia Pahang.
3. Jun 2008~ Sep 1008                    Maintenance Engineer, Maintenance Section, OYL manufacturing co.

### Research Area / Research Interest

Signal Processing, Acoustic Emission, Condition Monitoring.

### Professional Qualification / Membership / Affiliation / Experience

#### **Membership of Professional Organization**

1. Malaysian Society of Non-Destructive Testing (Malaysian Acoustic Emission Group)

### Teaching Experience

1. SESSION 2014/2015  
BMM1553 – DYNAMICS  
BMM3532 – MEASUREMENT & INSTRUMENTATION
2. SESSION 2013/14  
BMM1553 – DYNAMICS  
BMM3532 – MEASUREMENT & INSTRUMENTATION
3. SESSION 2012/13  
BMM1553 – Dynamics  
BMM1312– Computer Programming.  
BMM 3521- Engineering Fluid Mechanics Lab  
BMF/BMI 4743– Design for Manufacturing and Assembly  
DMM 2543 – Thermodynamics
4. SESSION 2011/12  
BMM 3521- Engineering Fluid Mechanics Lab  
BMF/BMI 4743– Design for Manufacturing and Assembly
5. SESSION 2008/09  
DMM2543 Thermodynamics 1, 3 credits  
BMM2523 Thermodynamics 2, Tutorial  
BMM2521 Engineering Mechanics Lab, 1 credits (80 Students)

### Post Graduate Supervision

-Nil-

## Degree Final Year Project Supervision

Muhammad Hanafi bin Yusop (MA11118) - Detection of pipeline network leakage using pressure transient signal.

Muhammad Izzat bin Jusoh (MA11052) – Bearing Fault Monitoring Via Analysis of Vibration

Che Wan Abd Rasyid bin Che Wan Hitam (MH11015) – Fault Diagnosis of Rolling Element Bearing using structure borne wave signature.

Muhammad Zubair bin Mat Zani (MA11047) – Non Contact Acoustic Analysis Monitoring of Dissimilar Metal Welding

Muhammad Aizat bin Kamaruzzaman (MA11062) – Time-frequency analysis of an air borne acoustic wave to monitor the dissimilar metal welding process.

## List Of Conference & Publication

### A) International/National Journal

MFM Yusof, M Ishak, MF Ghazali, MR Islam, Analysis of an Air Borne Acoustic Signatures from Welding Process Using Empirical Mode Decomposition, *Advanced Materials Research* 889, 770-775

CKE Nizwan, SA Ong, MFM Yusof, MZ Baharom, A wavelet decomposition analysis of vibration signal for bearing fault detection, *IOP Conference Series: Materials Science and Engineering* 50 (1), 012026

ZH Hanafi, N Jamaludin, S Abdullah, MFM Yusof, MSM Zain, Acoustic Emission Study of Corrosion Fatigue and Fatigue for API 5L X70 Gas Pipeline Steel, *Applied Mechanics and Materials* 138, 635-639

**M.F.M. Yusof**, C.K.E. Nizwan, N. Jamaluddin, S. Abdullah. Acoustic Emission Behavior During Fatigue Crack of API5LX70 Gas Pipeline Steel, *International Journal of Applied Mechanics and Materials Vols. 80-81 (2011) pp 148-152*

### B) International/National Conference

**M.F.M. Yusof**, C.K.E. Nizwan, N. Jamaluddin, S. Abdullah. Acoustic Emission Behavior During Fatigue Crack of API5LX70 Gas Pipeline Steel, *International Conference on Information Engineering for Mechanics and Materials*. 13 – 14 August 2011, Shanghai, China.

**M.F.M.Yusof**, Z.H.Hanafi, M.S.M. Zain, N.Jamaludin, and S. Abdullah, 'Acoustic Emission Behaviour during Tensile Deformation of API 5L X70 Steel', *Proceedings of Regional Engineering Postgraduate Conference 2010*, Hotel Equatorial Bangi, Selangor, 28-29 September 2010.

**M.F.M.Yusof**, M.S.M. Zain, Z.H.Hanafi, N.Jamaludin, and S. Abdullah, 'Acoustic Emission Frequency Spectrum Clustering during Elastic Deformation of API 5L X70 Steel using Principal Component Analysis', *The 2<sup>nd</sup> National Conference in Mechanical Engineering for Research & Postgraduate Studies*, Universiti Malaysia Pahang, Pahang, 3-4 December 2010.

M.S.M. Zain, **M.F.M.Yusof**, Z.H.Hanafi, N.Jamaludin, and Z.Sajuri, 'Acoustic Emission Studies during Tensile Deformation of S15 Low Carbon Steel', *Proceedings of Regional Engineering Postgraduate Conference 2010*, Hotel Equatorial Bangi, Selangor, 28-29 September 2010.

Z.H.Hanafi, N.Jamaludin, S. Abdullah, **M.F.M.Yusof** and M.S.M. Zain, 'Correlation between Corrosion Rate and AE Signal in Concentrated Sulfuric Acid for API 5L X70 Low Carbon Steel', *Proceedings of Regional Engineering Postgraduate Conference 2010*, Hotel Equatorial Bangi, Selangor, 28-29 September 2010.

M.S.M. Zain, N.Jamaludin, Z.Sajuri, **M.F.M.Yusof**, and Z.H.Hanafi, 'Acoustic Emission Study of Fatigue Crack Growth in Rail Track Material', *The 2<sup>nd</sup> National Conference in Mechanical Engineering for Research & Postgraduate Studies*, Universiti Malaysia Pahang, Pahang, 3-4 December 2010.

Z.H.Hanafi, N.Jamaludin, S. Abdullah, **M.F.M.Yusof** and M.S.M. Zain, 'Evaluation of Acoustic Emission Behavior under Hydrostatic Test in API 5L X70 Steel Pipe', *The 2<sup>nd</sup> National Conference in Mechanical Engineering for Research & Postgraduate Studies*, Universiti Malaysia Pahang, Pahang, 3-4 December 2010.

## List of Research / Project

### Project Leader

#### **RDU 130340**

DEVELOPMENT OF QUALITY MONITORING SYSTEM FOR DISSIMILAR METAL WELDING USING AN AIR BORNE ACOUSTIC WAVE

#### **RDU1403129**

DEVELOPMENT OF BEARING FAULT DETECTION SYSTEM BASED ON VIBRATION SIGNAL

### Project Members

#### **RDU130111**

A NEW TECHNIQUE OF LEAK DETECTION IN A GAS PIPELINE NETWORK BASED ON TIME REVERSAL METHOD AND NON LINEAR ACOUSTIC (MEMBER)

#### **RDU121410**

LEAKS DETECTION AND LOCAK IN WATER DISTRIBUTION SYTEMS BASED ON PRESSURE TRANSIENTS ANALYSIS (MEMBER)

#### **RDU120322**

DEVELOPMENT OF A NEW TECHNIQUE TO INCREASE THE SENSITIVITY IN CRACK IDENTIFICATION FOR AUTOMOTIVE COMPONENT : VIBRATIONS BASED ANALYSIS

(MEMBER)

#### **RDU1103103**

DEVELOPMENT OF REAL TIME MONITORING WELDING DEFECT DETECTION SYSTEM

(MEMBER)

## List of Course / Conference Attended

Date	Program	Status
14 Disember 2011	Kursus Persekitaran Berkualiti (Amalan 5S) 'Lean Management' dan Perkongsian Amalan Terbaik	Participant
	Focus Group Visit to SIRIM and University Malaya	Participant
28 Sept 2011	Workshop on Literature Review, FKM, UMP	Participant
22 Feb 2011	One-Day Seminar on Durability Assessment in Automotive : Technology (DAAT2011)	Participant
3-4 Dec 2010	2 <sup>nd</sup> National Conference in Mechanical Engineering for Research & Postgraduate Studies (NCMER2010), Pekan.	Presenter
28 Sept. 2010	Regional Engineering Postgraduate Conference (EPC2010), Bangi.	Presenter
Sept 2010	A course on MATLAB, UKM	Participant
12 July 2010	Bringing API-U Training to Malaysia Seminar, E2G and Frontium group, KLCC	Participant
28 Jun 2010	A Technical Seminar on Structural Integrity Theory: Presentation and Discussion	Participant
21 April 2010	MESYUARAT AGUNG MSNT KE 21	Participant
16 Nov 2009	A technical seminar on the subject of gearbox defect monitoring and assessment using Acoustic Emission technology.	Participant
20 Oct 2009	TECHNICAL TALK ON COMPUTED TOMOGRAPHY	Participant
3 Sept 2009	A technical seminar on the subject of concrete damage assessment using AE technology.	Participant
12 ~ 18 April 2009	Kursus SLAB 'Research Methodology'	Participant
8~11 Jan 2009	Higher Education Professional Training Programme for Young Lecturers	Participant
16 ~18 Dec 2008	A course on IELTS	Participant
Nov 2008	Kursus RAKSI	Participant
1~3 Dec 2008	FKM OBE Workshop: Curriculum Transformation and Teaching Plan Review, Selesa Hillhomes, Bukit Tinggi.	Participant
11 Nov 2008	Internal Training – training on commercial refrigerator (thermo lab) by supplier trainer	Participant
23~24 Sep 2008	Internal training – training on air compressor air study unit by supplier trainer.	Participant