



# Curriculum Vitae



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## 1.0 INTRODUCTION

Name : PROFESSOR IR. DR. MOHD JAILANI BIN MOHD NOR

Identification card no. : 620817-10-6297 (6884313)

Date/ Place of Birth : 17<sup>th</sup> August, 1962 / Bangi, Selangor

Sex : Male

Citizen : Malaysian

Status : Married

Current Post : Professor

Address : Dept. of Mechanical and Materials Engineering  
Faculty of Engineering  
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## FIELD OF EXPERTISE

Machine Condition Monitoring  
Sound and Vibration

## ACADEMIC QUALIFICATION

Sheffield Hallam University, U.K.	Ph. D.	1993 - 1996
Oklahoma State University, USA	Msc. Mech. Eng.	1986 - 1988
Technical Teaching College, K. Lumpur.	Cert. of Education	1985
Oklahoma State University, USA	B. Sc. Mech. Eng.	1980 - 1984
Kajang High School	M.C.E	1978 - 1979
Sek. Men. Engku Hussain, Semenyih	L.C.E.	1975 - 1977

## PROFESSIONAL AFFILIATION

P. Eng., Board of Engineers Malaysia	13114
Member, Board of Engineers Malaysia	12423A
Member, International Institute of Acoustics & Vibration (IIAV)	955
Member, Malaysian Society for Non-Destructive Testing	102/90
Member, UKM Academic Society	From 1988
Registered Consultant, Department of Environment, Malaysia	SS 0551
	I 00207

## LANGUAGE

Malay language	(Fluent)
English	(Fluent)

## WORKING EXPERIENCE

Deputy Vice Chancellor	Universiti Teknikal Melaka (UTeM)	1 <sup>st</sup> January 2012 - present
Director	Institution of Higher Education Excellence Planning Division, Ministry of Higher Education Malaysia.	1 <sup>st</sup> January 2009 - 31 Dec 2011
Board of Directors	UMS-Link Sdn Bhd, Universiti Malaysia Sabah (UMS).	2009 - 31 Dec 2011
Board of Directors	K-UTech Sdn Bhd., Universiti Tun Hussein Onn Malaysia	April 2010 - 31 Dec 2011
Board of Directors	Universiti Tun Hussein Onn Malaysia (UTHM)	16 <sup>th</sup> Jun 2009 - 31 Dec 2011
Deputy Director	Centre For Research and Innovation Management, UKM	1 <sup>st</sup> March 2007 - Dec 2008
Professor	Mechanical Engineering, UKM	25 <sup>th</sup> August 2005 - present
Deputy Dean (Academic)	Faculty of Engineering, UKM	1 <sup>st</sup> June 2003 - 31 <sup>st</sup> March 2007.
Head of Department	Department of Mechanical and Materials Engineering, Faculty of Engineering, UKM	1 <sup>st</sup> April 1999 - May 2003
Coordinator	UKM-KYPM Francais Program, Faculty of Engineering, UKM	Nov. 1997 – 30 <sup>th</sup> March 1999
Associate Professor	Department of Mechanical and Materials Engineering, Faculty of Engineering, UKM	1 <sup>st</sup> January 1998 - 24 <sup>th</sup> August '05
Lecturer	Department of Mechanical and Materials Engineering, Faculty of Engineering, UKM	2 <sup>nd</sup> June 1988 - December 1997
Tutor	Department of Mechanical and Materials Engineering, Faculty of Engineering, UKM	17 <sup>th</sup> February 1986 - 1 <sup>st</sup> June 1988

## AWARDS

- |       |   |                                      |
|-------|---|--------------------------------------|
| i.    | Scholarship, State Government of Selangor,<br>Sek. Men. Engku Hussain, Semenyih, Selangor.  | 1977 - 1979                          |
| ii.   | First place for the Essay Competition,<br>Kajang High School, Selangor  | 1979                                 |
| iii.  | Scholarship, Ministry of Education, Malaysia  | 1980 - 1984                          |
| iv.   | Scholarship, Bumiputra Academic Enhancement Scheme,<br>For Masters Degree, UKM  | 1986 - 1988                          |
| v.    | 'Friendship Program for the 21st. Century Malaysia – Japan'<br>sponsored by Japanese Government through 'Japan<br>International Corporation Agency ' (JICA)   | 1 – 30 Oct 1991                      |
| iv.   | 'Short Course Sponsorship Award' by Asian Development<br>Bank, ADB, in Machine Condition Monitoring at Sheffield<br>Hallam University, UK and Headquarters Bruel & Kjaer,<br>Nearum, Denmark            | 1 June – 2 July 1992                 |
| vii.  | Scholarship, Bumiputra Academic Enhancement Scheme,<br>For PhD, UKM   | 1993 - 1996                          |
| viii. | Bronze medal, Creativity and Innovation Competition, Science<br>and Technology Expo 2001, PWTC, Kuala Lumpur, Malaysia.<br>Product: Sound Signature Capturing System                                    | 30 June – 3 July<br>2001             |
| ix.   | Bronze medal, Creativity and Innovation Competition, Science<br>and Technology Expo 2002, PWTC, Kuala Lumpur, Malaysia.<br>Product: Vehicle Simulator System for Driver's Fitness<br>Analysis (VeSSDFA) | 2 – 4 <sup>th</sup> November<br>2002 |
| x.    | Bronze medal, Creativity and Innovation Competition, Science<br>and Technology Expo 2002, PWTC, Kuala Lumpur, Malaysia.<br>Product: Condition Monitoring System for the Human Heart                     | 2 – 4 <sup>th</sup> November<br>2002 |
| x.    | Bronze medal, Creativity and Innovation Competition, Science<br>and Technology Expo 2002, PWTC, Kuala Lumpur, Malaysia.<br>Product: Condition Monitoring System for the Human Heart                     | 2 – 4 <sup>th</sup> November<br>2002 |
| xi    | Special Quality Award<br>Best Lab Management Award (Group Category)<br>Universiti Kebangsaan Malaysia<br>10th Quality Award Ceremony  | 11th October 2002                    |
| xii.  | Excellent Service Award<br>Universiti Kebangsaan Malaysia<br>11th Quality Award Ceremony  | 23rd October 2003                    |

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|------------|---|--------------------------------|
| xiii.      | Bronze medal, Creativity and Innovation Competition, Science and Technology Expo 2004, Mid Valley Exhibition Centre, Kuala Lumpur, Malaysia.<br>Product: An Integrated System for Data Acquisition, Analysis and Identification of Driver's Drowsiness. | 20 – 22nd May 2004             |
| xiv.       | Silver medal, The National Exposition of Science, Technology and Innovation, STI EXPO 2004, Putra World Trade Centre, Kuala Lumpur, Malaysia.<br>Product: Intelligent Heart Condition Monitoring System   | 26 – 28th August 2004          |
| xv.        | Bronze medal, The National Exposition of Science, Technology and Innovation, STI EXPO 2004, Putra World Trade Centre, Kuala Lumpur, Malaysia.<br>Product: Driver's Drowsiness Detection and Interactive Warning System                                  | 26 – 28th August 2004          |
| xvi.       | <b>Gold medal</b> , Seoul International Invention Fair 2004, SIIF 2004, Coex, Seoul, Korea.<br>Product: Driver's Drowsiness Detection and Interactive Warning System  | 10 - 14th December 2004        |
| xvii       | Bronze medal, 33rd International Exhibition of Inventions, Geneva, Switzerland.<br>Product: Intelligent Heart Monitoring System   | 6th – 10th April 2005.         |
| xvii<br>i. | Bronze medal, 16th International Invention Innovation Industrial Design & Technology Exhibition (ITEX 2005).<br>Product: Earth Tremor Alarm System for Home Use.  | 19th – 21st May 2005.          |
| xix.       | Special Quality Award<br>Quality Culture Award (Academic Staff)<br>Universiti Kebangsaan Malaysia<br>13th Quality Award Ceremony  | 28th November 2005.            |
| xx         | <b>Anugerah Makmal Cemerlang</b> (Penyelidikan), Makmal Akustik, Jabatan Kejuruteraan Mekanik & Bahan, Majlis Makan Malam Fakulti Kejuruteraan, UKM.  | 18 Ogos 2007                   |
| xxi        | <b>Silver medal</b> , Innovative Acoustic Absorption Panel Design Using Natural Fibre, International Exposition of Research and Inventions of Institution of Higher Learning 2007, PECIPTA07, K. Lumpur.  | 12 <sup>th</sup> August 2007   |
| xxi        | <b>Gold medal</b> , Innovative Acoustic Absorption Panel Design Using Natural Fibre, Internationale Fachmesse >>Ideen-Erfindungen-Neuheiten<<, Nurnberg, Germany.   | 3 <sup>rd</sup> November 2007. |

## 2.0 TEACHING AND SUPERVISION

### 2.1 TEACHING

Undergraduate:

Course code	Semester, Session	Contact Hours	No. of Students
KM 2052- Applied Mechanics II	I, 1988/89	28	20
KM 3232 Advanced Laboratory.		28	31
KM 2082 Strength of Materials	II, 1988/89	28	21
KM 2222 Machine Design		28	19
KM 2052 Applied Mechanics II	I, 1989/90	28	24
KM 3072 Applied Mechanics III		28	18
KM 3212 Complex Engineering Design		28	15
KM 2222 Machine Design	II, 1989/90	28	24
KM4342 Advanced Dynamics		28	4
KM 2052 Applied Mechanics II	I, 1990/91	28	23
KM 3072 Applied Mechanics III		28	24
KM 2062 Engineering Control I	II, 1990/91	28	23
KM 4342 Advanced Dynamics		28	10
KM 2052 Applied Mechanics II	I, 1991/92	28	26

KM 3072 Applied Mechanics III		28	23
KM 2062 Engineering Control I	II, 1991/92	28	26
KM 2023 Machine Design	II, 1996/97	42	47
KM2933 Machine Component Design	I, 97/98	42	75
KM4353 Acoustics		42	5
KM2343 Dynamics	II, 97/98	42	74
KF2223 Technology and Civilisation		14	200
KM2443 Strength of Materials	I, 98/99	42	75
KM4343 Mechanical Vibrations		42	47
KM2363 Mechanical Vibration	II 98/99	42	20
KF2223 Ethics: Technology and Civilisation		14	200
KM3323 Mechanical Vibrations		42	74
KM2443 Strength of Materials	I, 99/00	42	93
KM3323 Mechanical Vibrations		42	66
KM3343 Acoustics	II, 99/2000	42	20
KF2223 Ethics: Technology and Civilisation		14	200

KM3323 Mechanical Vibrations	I, 2000/01	42	70
KM3343 Acoustic	II, 2000/01	42	11
KF2223 Ethics: Technology and Civilisation		14	200
KM3343 Acoustics	I 2001/02	42	19
KM3343 Acoustics	II, 2001/02	42	22
KF2223 Ethics: Technology and Civilisation		14	9
KM3343 Acoustics	I, 2002/03	42	23
KM3323 Mechanical Vibration	II, 2002/03	42	3
KF3223 Ethics: Technology and Civilisation		14	200
KM3323 Mechanical Vibrations	I, 2003/04	42	78
KJ4343 Acoustics	II, 2003/04	42	23
KF3223 Ethics: Technology and Civilisation		14	200
KJ4343 Acoustics	II, 2004/05	42	18
KF3223		14	200



Ethics: Technology and Civilisation			
KJ4343 Acoustics	II, 2005/06	42	25
KF3223 Ethics: Technology and Civilisation		14	200
KJ4343 Acoustics	II, 2006/07	42	18
KJ4343 Acoustics	II, 2007/08	42	22

Post- graduate:

Course	Semester, Session	Contact Hours	No. of Students
LS6403 Environmental Pollution Control	I, 98/99	12	30
LS6403 Environmental Pollution Control	I, 99/00	12	22
LS6403 Environmental Pollution Control	I, 2000/01	12	20
LS6403 Environmental Pollution Control	I, 2001/02	12	19
LS6403 Environmental Pollution Control	I, 2002/03	12	35
LS6403 Environmental Pollution Control	I, 2003/04	12	24
KJ6043 Advanced Instrumentation		21	8
LS6403 Environmental Pollution Control	I, 2004/05	12	28
KJ6043 Advanced Instrumentation		21	12
LS6403 Environmental Pollution Control	I, 2005/06	12	28
KJ6043 Advanced Instrumentation		21	12

LS6403 Environmental Pollution Control	I, 2006/07	12	32
KJ6043 Advanced Instrumentation		21	14
LS6403 Environmental Pollution Control	I, 2007/08	12	30
KJ6043 Advanced Instrumentation		21	11

## 2.2 STUDENT SUPERVISION

### Undergraduate

Name of student	Thesis Title	End of session
Mohd Marzuki bin Tokichor	Design of Acoustics Absorption Panel Based on Indigenous Materials (in Malay)	2003/04
Khairul Nizam Idris (A75128)	Study and Analysis of Panel Vibration In Automobile (in Malay)	2003/04
Mohd Nor Afizi bin Othman (A76981)	Design of Temperature Control System Inside an Automobile (in Malay)	2003/04
Fadzlita bt Mohd Tamiri (A69076)	Noise Dose Exposure Analysis to Humans (in Malay)	2001/02
Mohd Faiz bin Malik (A69140)	Machine Condition Monitoring Using Air-Borne Ultrasonic Signals (in Malay)	2001/02
Elmeizal bin Jamaludin (A67420)	Characteristics of Traffic Noise (in Malay)	2001/02
Mohd Anuar Mohd Idris (A69130)	Development of Environmental Noise Monitoring Software (in Malay)	2001/02
Rosliza Hassan (A57628)	Characteristics of Traffic Noise in Malaysia (in Malay)	2001/02
Khairi Razlan bin Mohd Yusof (A57521)	Analysis of Highway Noise In Malaysia (in Malay)	2001/02

Ahmad Nazwan bin Mat Zin (A69039)	Measurement of Acoustic Absorption Coefficients (in Malay)	2001/02
Rosihan bin Sidek (A69227)	Emission of Sound Wave from Material Impact Test Rig (in Malay)	2001/02
Wong See Yee (A64018)	Analysis of Noise Signal in Industrial and Construction Areas (in Malay)	2000/01
Afizie bin Yahya (A62191)	Design and Fabrication of Garbage Compacting Machine for Domestic Used (in Malay)	2000/01
Iswadi bin Zulkarnain (A62250)	Design of Acoustic Absorption System Using Indigenous Materials (in Malay)	2000/01
Haizal bin Mohd Hamzah (A57902)	Characteristics of Industrial Fan Noise (in Malay)	1999/00
Mohd Adib bin Shaharum (A56349)	Student Subjective Response to Noise Exposure in a Classroom (in Malay)	1999/00
Mahathair bin Daud (A53115)	Analysis of Noise from Railway in Malaysia (in Malay)	1999/00
Mohd Ruzai Azrin bin Zakaria (A56333)	Design of Fibre Producing Machine From Coconut Husk (in Malay)	1999/00
Mohd Nizamudin bin Mohd Kamil (A56346)	Measurement of Noise Signal under 1000Hz Frequency Components (in Malay)	1999/00
Nidzam bin Mohamed Noori (A57585)	Measurement of 10Hz - 20kHz Noise Signals to Monitor Machine Operation Conditions (in Malay)	1999/00
Umran Abdul Rahman (51865)	Ground Vibration Due to Landing of Airplanes (in Malay)	1999/00
Ahmad Izaddin bin Abdullah (51847)	Noise Mapping Due to Airplane Departure and Landing (in Malay)	1999/00
Gik Haur Dat (51852)	Analysis of Aircraft Engine Vibration (in Malay)	1999/00
Mohd Khirol bin Mohd Azim (A57561)	Design and Fabrication of a Simple Ultrasonic Transducer (in Malay)	1999/00
Nor Aida Mohd Amin (48452)	Noise Rating of Motor Vehicles in Malaysia (in Malay)	1998/99
Loke Weng San (48537)	Application of Non Destructive Testing to Determine the Acoustic Characteristics of Fluid and Solid Using Ultrasonic Method	1998/99

	(in Malay)	
Muhammad Hussain bin Ismail (48450)	Design of Concept Control System of Automatic Gate Based on Sound (in Malay)	1998/99
Elvisia Binson (51678)	Design of Test-Rig With Constant Acceleration for Electronic Components (in Malay)	1998/99
Mohd Johan Ariff bin Mohd Supian (51718)	Analysis of Sound and Vibration Signal From Low Impact Test For Evaluating Engineering Product Quality (in Malay)	1998/99
Mohd Djunaidi bin Samsuddin (48439)	Monitoring of Small Drilling Machine Using Sound and Vibration (in Malay)	1998/99
Shahmuzir bin Nordzahir (48419)	Monitoring of Machine Condition Using Statistical Method (in Malay)	1998/99
Mohd Noor bin Yahya (48314)	Condition Monitoring of Gear for Motor Vehicles (in Malay)	1998/99
Ng Min Jee (43875)	Non Destructive Characterisation of Boundary Condition Between Two Components or Materials Using Ultrasonic Method (in Malay)	1997/98
Mohd Firdhaus bin Mahbob (45729)	Monitoring of Machine Tools Quality Using Sound and Vibration Signal (in Malay)	1997/98
Shahrir bin Abdullah (25212)	Development of Noise Assessment Software (in Malay)	1991/92
See Siaw Hua (24795)	Materials Characterisation Using Ultrasonic Method (in Malay)	1991/92
Muhamad Hazlalin bin Ibrahim (25274)	Software Development for Designing Coil Spring (in Malay)	1991/92
Lai Man Hau (22167)	Development of Noise Level Assessment Software (in Malay)	1990/91
Lim Siew Seng (22165)	Design of Test Rig and Analysis of Automobile Suspension System (in Malay)	1990/91
Oh Kuan Meng (20712)	Computer Software For The Analysis and Design of Cam With Dwell Rise Dwell and Return Profile (in Malay)	1989/90
Mohd Norzalakmal bin Awang (19013)	Design Of Automotive Suspension With Variable Damping Coefficient (in Malay)	1989/90

Chow Kooi Swin (18935)	Cam Design With Dwell Rise And Return Profile (in Malay)	1988/89
Chandra Rao Sinnodu (18919)	Software for the Analysis of Mohr's Step Circle (in Malay)	1988/89
Muhamad Khairi bin Harun (21210)	A Study On The Utilisation Of Rubber Spring in Malaysian Industries: Development and Future Potential (in Malay)	1988/89
Pua Kok Seng (81845)	Sistem pengesanan paku dan tekanan secara atas talian pada tayar kenderaan bagi kenderaan pintar.	2004/05
Sharunnizam b. Yusof (A86590)	Analisis Kualiti Bunyi Dalam Kereta	2005/06
Baihaki Ahmad Palal (A86362)	Pengukuran dan Analisis Bunyi Trafik dan Enjin Kenderaan Jalanraya	2005/06

<b>Post-Graduate Thesis and Dissertation (Masters Degree)</b>	<b>Title</b>	<b>Status</b>
N. Valliyappan David (P16923) Main Supervisor	Assessment of Acoustic Indigenous Materials Absorption Using Impedance Tube (in Malay)	Masters (Completed)
Sutiman bin Kemin (P12533) Main Supervisor	Monitoring of Gear Component Using Noise and Vibration Signals (in Malay)	Masters (Completed)
Tan Cheng Ling (P15436) Main Supervisor	Response of ISO 14000 in Comparison to the ISO 9000 In Industry (in Malay)	Masters (Completed)
Syifaul Huzni (P20290) Second Supervisor	Crack Analysis Using Adaptive Meshing (in Malay)	Masters (Completed)
Sairana bt Haji Tahir (P18026) Main Supervisor	Comparison of Traffic Noise in Several Public Areas in Kajang and Bangi (in Malay)	Masters (Completed)
Fadzlita Mohd Tamiri (P25286) Main Supervisor	Design And Testing Of Semi- Active Noise Absorption Panel (in Malay)	Masters (Completed) (2006)
Lim Hock Aun (P23609) Second Supervisor	Analysis of Acoustics Micro-Sensor With Structure-Electrostatic Coupling (in Malay)	Masters (Completed)
Koh Wei Kiat (P23600) Main Supervisor	Design of an Automotive Simulator for Man-Machine Interaction Study (in Malay)	Masters (Completed)
Choy Hau Yan (P23582) Second Supervisor	Utilisation of Parallel Processing to Simulate Crack Propagation (in Malay)	Masters (Completed)
Lee Yuk Choi Main Supervisor	A Study on the Performance of Impedance Tube for Sound Absorption and Transmissibility Using Boundary Element Method (in Malay)	Masters
Syahril bin Syahfiri Second Supervisor	Fatigue Analysis of Linear Engine Components (in Malay)	Masters
Rieza Zakia Mukhlis Second Supervisor	Design and Fabrication of Micro-Actuator for Impact Absorption Using Shape Memory Alloy Materials (in Malay)	Masters (Completed) (Sept. 2006)

58. Ruzelita Ngadiran (P26782) Main Supervisor	Design and Development of a Drowsiness Detection System for an Automotive Simulator (in Malay)	Masters (Completed) (2006)
59. Fadzlul Rahimi (P26773) Main Supervisor	Development of Human Heart Monitoring System (in Malay)	Masters

<b>Thesis (PhD):</b>	<b>Title</b>	<b>Status</b>
Muhammad Dirhamsyah (P13595) Main Supervisor	Performance of CNC Drilling Machine Using Air Particle Acceleration Signals (in Malay)	PhD (Completed, 2003)
Mohd Zaki Nuawi (P20680) Main Supervisor	Development of Machine Condition Monitoring System Using Ultrasonic Method (in Malay)	PhD (Completed 2008)
Mohammad Hosseini Fouladi (P34497) Main Supervisor	Development of a Balancing Method For Very Large Flexible Rotating Rotors (in Malay)	PhD (Completed 2008)
Nuraini Abd. Aziz Second Supervisor	Concurrent Optimisation of Structure Design and Vibro-Acoustic Analysis for Automotive Applications (in Malay)	PhD (Completed)
Ishak bin Baba (P27303) Second Supervisor	Risk Management Model for Workers Due To Noise Exposure in Malaysian Timber-Based Industries (in Malay)	PhD (Completed 2006)
Yohan Kurniawan (P26870) Second Supervisor	Development of an Assessment and Treatment Method for Human Fatigue (in Malay)	PhD (Completed 2008)
El Waleed (P17915) Second Supervisor	Parallel Manipulator Actuated by Shape Memory Alloy (in Malay)	PhD (Completed 2007)
Othman b. Inayatullah (P33976)	Pemantauan Keadaan Enjin Diesel Menggunakan Kaedah Pancaran Akustik	PhD (Completed 2009)
Dian Darius	Penilaian Parameter Ergonomik Menggunakan Kriteria Dinamik	PhD (Completed 2010)



## 2.3 EXAMINER

1. External Examiner for MSc Candidate at Universiti Malaya, February 1998.
2. External Examiner for MSc Candidate at Universiti Teknologi Malaysia, August 1999.
3. External Examiner for MSc Candidate at Universiti Malaya, October 2001.
4. External Examiner for MSc Candidate at Universiti Sains Malaysia, March 2002.
5. External Examiner for PhD Candidate at Universiti Teknologi Malaysia, April/November 2002.
6. Internal Examiner for PhD Candidate at Dept. of Electrical and Electronics Engineering, Universiti Kebangsaan Malaysia, Nov. 2002.
7. External Examiner for MSc Candidate at Universiti Teknologi Petronas, Malaysia, 21<sup>st</sup> September 2004.
8. External Examiner, MSc Thesis, Dept. of Electrical and Electronic Engineering, Kolej Universiti Teknologi Tun Hussein Onn, Feb. 2005.
9. External Examiner, MSc Thesis, Dept. of Mechanical Engineering, Kolej Universiti Teknologi Tun Hussein Onn, June 2005.
10. External Examiner, MSc Thesis, Faculty of Mechanical Engineering, Universiti Teknologi Mara, 2005/06.
11. External Examiner, PhD Thesis, Centre for Postgraduate Studies, International Islamic University Malaysia, 18<sup>th</sup> December 2007. Sany Izzan Ihsan (G0320015), 'Ride Quality Analysis of Semiactive Control Policies'.
12. External Examiner, MSc Thesis, Institute of Graduate Studies, Universiti Sains Malaysia, October 2007. Han See Peng (G0320015), 'Noise Modeling in Universiti Sains Malaysia and Offshore Oil and Gas Platform'.
13. External Examiner, MSc Thesis, Institute of Graduate Studies, Universiti Putra Malaysia, Mac 2009. Aloysius D'Cruz (GS14452), "A Study of Active Noise Control (ANC) Technique Application in Air Conditioning System."

## 2.4 FACILITATOR

1. Learning Culture Program, Faculty of Engineering UKM, since 1991, Responsible for guiding and motivating low achievement students.
2. Driving Culture Change Towards 'Outcomes Based Education (OBE)':
  - (a) For the Faculty of Engineering University Kebangsaan Malaysia, since 2003.
  - (b) For all the Faculties at the Universiti Kebangsaan Malaysia, 2004.
  - (c) For all Engineering Faculties in Malaysian Universities, Organised by Engineering Accreditation Council (EAC), Malaysia, 2004.

## 3.0 PUBLICATIONS

### Thesis PhD:

1. **Mohd Jailani Mohd Nor**, A Machine Component Monitoring System Using Audio Acoustic Signals, Ph.D. Thesis, Sheffield Hallam University, 1996.

### Books:

2. **Mohd Jailani Mohd Nor** and V. Navaratnam (Editors), *Higher Institutions' Centres of Excellence (HICoE) Profile: Research and Innovation*, Department of Higher Education, Ministry of Higher Education Malaysia, 2010, ISBN 978-983-3663-44-6.
3. **Mohd Jailani Mohd Nor** et al. (Editors), *Proceedings The 3<sup>rd</sup> Regional Conference on Noise, Vibration and Comfort, NVC2010*, Faculty of Engineering UKM, Pullmann Putrajaya, ISBN 978-983-2982-17-3.
4. **Mohd Jailani Mohd Nor** and Kamarudin Min (Editors), *R & D Products of Public Universities in Malaysia*, October 2010, Ministry of Higher Education, ISBN 9789833663651.
5. **Mohd Jailani Mohd Nor** et al. (Editors), *Proceedings Regional Seminar on Advances in Noise Vibration and Comfort, NVC2007*, Faculty of Engineering, Universiti Kebangsaan Malaysia, ISBN 978-983-2982-17-3.
6. **Mohd Jailani Mohd Nor** et al. (Editors), *Proceedings National Seminar on Advances in Malaysian Noise Vibration and Comfort, NVC2005*, Faculty of Engineering, Universiti Kebangsaan Malaysia, ISBN 983-2975-42-5.
7. Ahmad Kamal Arifin, Nik Abdullah Nik Mohamed, Shahrir Abdullah and **Mohd Jailani Mohd Nor** (Editors), *Proceedings National Seminar on Computational & Experimental Mechanics, CEM2005*, Faculty of Engineering, Universiti Kebangsaan Malaysia, ISBN 983-2975-41-7.
8. Jamaluddin Md Jahi, **Mohd Jailani Mohd Nor**, Kadir Arifin dan Azahan Awang (Editor), *Alam Sekitar dan Kesejahteraan Masyarakat Malaysia*, Program Pengurusan

Persekitaran, Pusat Pengajian Siswazah, Universiti Kebangsaan Malaysia, 2004, ISBN 983-2975-28-1.

9. **Mohd Jailani Mohd Nor**, Zulkifli Mohd Nopiah and Ahmad Kamal Ariffin Mohd Ihsan (Editors), *Research Methodology in Engineering (in Malay)*, Thomson, K. Lumpur, 2004, ISBN 981-254-135-7.
10. Jamaluddin Md. Jahi, Ismail Sahid, Kadir Arifin, **Mohd Jailani Mohd Nor**, Kamaruzzaman Sopian, and Md. Pauzi Abdullah (Editors), *Proceedings National Seminar on Environmental Management 2003*, Post Graduate Centre UKM, 2002, ISBN 983-2446-80-5.
11. Ahmad Kamal Ariffin and **Mohd Jailani Mohd Nor**, *MATLAB: Engineering Applications (in Malay)*, McGraw-Hill, K. Lumpur, 2002, ISBN 983-9340-82-4.
12. **Mohd Jailani Mohd Nor**, and Mohd Zaki Nuawi, *Engineering Dynamics (in Malay)*, Publication of Universiti Kebangsaan Malaysia, November 2000, ISBN 967-942-511-8.
13. Jamaluddin Md. Jahi, **Mohd Jailani Mohd Nor**, Abdul Kadir Arifin and Muhamad Rizal Radzuan (Editor), *Environmental Issues in Malaysia (in Malay)*, Environmental Management Programme, UKM, 2002, ISBN 983-2446-60-0.
14. Jamaluddin Md. Jahi, **Mohd Jailani Mohd Nor**, Kamaruzzaman Sopian, Ismail Sahid and Abdul Hadi Harman Shah (Editors), *Proceedings International Conference on Environmental Management: Ten Years After Rio*, Post Graduate Centre UKM, 2002, ISBN 983-2446-64-3.
15. Jamaluddin Md. Jahi, **Mohd Jailani Mohd Nor**, (Editors), *Proceedings National Seminar on Environmental Management: Current Development & Future Planning*, Post Graduate Centre UKM, 2001, ISBN 983-2446-62-7.
16. Jamaluddin Md. Jahi, Kamaruzzaman Sopian, **Mohd Jailani Mohd Nor** and Abdul Hadi Harman Shah (Editors), *Proceedings National Seminar on Environmental Management Issues and Challenges in Malaysia*, Environmental Management Programme, UKM, 2000, ISBN 983-2446-04-X.

## Chapters in Books:

17. **Mohd Jailani Mohd Nor**, Konsep dan Teori Asas Bunyi, Jamaluddin Md Jahi et al. (Editor), *Alam Sekitar dan Kesejahteraan Masyarakat Malaysia*, Program Pengurusan Persekitaran, Pusat Pengajian Siswazah, Universiti Kebangsaan Malaysia, 2004, pp.35 – 49, ISBN 983-2975-28-1.
18. **Mohd Jailani Mohd Nor**, The Issues of Noise and Vibration in Environmental Management – Interpretation of Applied Parameters (in Malay), *Environmental Management in Malaysia Issues and Challenges*, J. M. Jahi (Editor), Environmental Management Programme, UKM, 2000, pp. 147-158, ISBN 983-9152-80-7.
19. **Mohd Jailani Mohd Nor**, Research Methodology in Engineering (in Malay): *Research Methodology in Engineering (in Malay)*, M. J. Mohd Nor et al. (Editor), Thomson, K. Lumpur, 2004, pp. 5 – 13, ISBN 981-254-135-7.

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95. **Mohd Jailani Mohd Nor**, Sallehuddin Mohamed Haris and Mohd Zaki Nuawi, "Applications Of Matlab™ for Teaching and Research in Applied Mechanics", Invited Paper, National Seminar on The Language of Technical Computing, Crystal Crown Hotel, Petaling Jaya, 31<sup>st</sup> May 2001.
96. **Mohd Jailani Mohd Nor**, "Application of Noise Measurement and Analysis in Malaysia," Invited Paper, Noise Analysis Seminar: Solution for the New Millennium," Kiara Equestrian & Country Resort, organized by Novico Engineering, K. Lumpur, 22<sup>nd</sup> November 2000.
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2. Junoh, A.K., , Wan Muhamad, W. Z. A., Nopiah, Z.M, **Nor, M.J. M.**, Ariffin, A.K., Hosseini Fouladi, M., A Study on the Effects of Tyre to Vehicle Acoustical Comfort in Passenger Car Cabin, Proceedings of the 3rd International Conference on Computer Research and Development (ICCRD), Shanghai , China, March 11-13, 2011. (Indexed by IEEE).
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191. **Mohd Jailani Mohd Nor**, Perkembangan Serta Pembelajaran Dalam Bidang Kejuruteraan Masa Hadapan (Development and Education in Engineering Field for the Future), Engineering Technology Carnival 2000, Faculty of Engineering, UKM, 8<sup>th</sup> November 2000.
192. **Mohd Jailani Mohd Nor**, Pengenalan Kepada Kejuruteraan Akustik (Introduction to Engineering Acoustics), Tutorial Note Series, Department of Mechanical & Materials Engineering UKM, 2000.
193. **Mohd Jailani Mohd Nor**, Getaran Mekanik (Mechanical Vibrations), Tutorial Note Series, Department of Mechanical & Materials Engineering UKM, 1999.
194. Shahrir Abdullah, **Mohd Jailani Mohd Nor**, Azli Arifin, Mohd Hanif Md. Saad and Shahrum Abdullah, (Development of Noise Assessment Software), Version 3.0, 1999.

## Articles in Popular Publications:

195. **Prof. Dr. Mohd Jailani Mohd Nor**, Ruzelita Ngadiran, Mohd. Hanif Md. Saad, "Saintis Tempatan Cipta Sistem Amaran Pemandu Mengantuk," Utusan Malaysia, 22 Mac 2006.
196. Yohan Kurniawan, Rozmi Ismail, Ismail Maakip & **Mohd Jailani Mohd Nor**, "Road Traffic Accidents in Malaysia (in Malay)," PEMIKIR, Oktober – December 2004, Kumpulan Utusan, pp. 153 – 162.
197. Marzita Abdullah, Agricultural Waste Product Suitable for Noise Absorption (in Malay), Science & Technology, Utusan Malaysia, 28<sup>th</sup> May 2001.
198. **Mohd Jailani Mohd Nor**, Control of Noise Pollution (in Malay), Dewan Kosmik, March 2000, pp. 14-15.
199. **Mohd Jailani Mohd Nor**, Noise Pollution: A Life Time Disturbance (in Malay), Dewan Kosmik, March 2000, pp. 8-10.

## Technical Reports:

200. Putrajaya Convention Centre: Plenary Hall Wall Panel Sound Absorption Test in a Reverberation Room in Accordance to ISO 354 and ISO 11654 Standards, Technical Report for Putrajaya Convention Centre, November 2002.
201. Putrajaya Convention Centre: Banquet Hall Wall Panel Sound Absorption Test in a Reverberation Room in Accordance to ISO 354 and ISO 11654 Standards, Technical Report For Putrajaya Convention Centre, November 2002.

202. Putrajaya Convention Centre: Head of State Wall Panel Sound Absorption Test in a Reverberation Room in Accordance to ISO 354 and ISO 11654 Standards, Technical Report For Putrajaya Convention Centre, August 2002.
203. Putrajaya Convention Centre: Impact Test for Chadwick Roof in Accordance to ISO 140-7 and ISO 717-2 Standards, Technical Report For Putrajaya Convention Centre, May 2002.
204. Detailed Environmental Impact Assessment for an Independent Power Plant (IPP) and Maritime Terminal Development at Pulau Bunting, Yan, Kedah Darul Aman. Technical Report for Research and Consultant Bureau UKM, October 1999.
205. Report for Jaques Primary Rock Crusher. Technical Report for Advanced Engineering Centre UKM, August 1999.
206. Environmental Requirements for Melaka Lubricant Base Oil Project, Technical Report for Research and Consultant Bureau, UKM, April 1999.
207. Environmental Impact Assessment Including Risk and Hazard Analysis Study for the Proposed Kuantan-Kerteh Railway Project. Technical Report for Research and Consultant Bureau, UKM, May 1998.
208. Detailed Environmental Impact Assessment Study for Proposed 2100MW Coal-fired Power Station at Manjung, Perak Darul Ridzuan. Technical Report for Tenaga Nasional Research and Development Sdn Bhd, Sept. 1997.
209. Environmental Impact Assessment of TNB Proposed Gas Turbine – Combined Cycle Extension Project at Connaught Bridge Power Station, Klang. Technical Report for Research and Consultant Bureau, UKM, Sept 1991.
210. Environmental Impact Assessment of Proposed Extension of Sultan Salahuddin Abdul Aziz Power Station. Technical Report for Tenaga Nasional Berhad, July 1991.
211. Environmental Impact Assessment for Proposed Extension Connaught Bridge Power Station, Klang, Selangor Darul Ehsan. Technical Report for Tenaga Nasional Berhad, June 1991.

## Intellectual Properties:

### Trade Mark Registration:

1. Interactive online driver drowsiness detection and Early Warning System (IDES™)  
Trademark Registration applied for Class 16 & Class 42.
2. Automotive Simulator for Drivers behaviour anthropotechnic Study (ASIS™)  
Trademark Registration applied for Class 16 & Class 42.
3. Intelligent Heart Condition Monitoring System (i-Heartz™)  
Trademark Registration applied for Class 16 & Class 42.

### Patent:

### Referee:

1. Referee, Papers for Pertanika Journal of Science & Technology, universiti Putra Malaysia.
2. Referee, Papers for Second International Conference on Advances in Strategic Technologies Proceeding-2000, Universiti Kebangsaan Malaysia, Putrajaya.
3. Referee, Papers for Journal of Industrial Technology, SIRIM.
4. Referee, A Paper for International Journal of COMADEM (Condition Monitoring & Diagnostic Engineering Management), U.K.
5. Referee, A Paper for IIUM Engineering Journal, International Islamic University Malaysia.
6. Referee, A Paper for Jurnal Sains Malaysiana, Universiti Kebangsaan Malaysia, February 2005.
7. Referee, A Paper for International Journal of Acoustics and Vibration, May 2008.

## 4.0 RESEARCH AND CONSULTANCY

### 4.1 RESEARCH

1.	Title	: Development and Production of Indigeneous Vibro-Acoustic Control Materials and Systems
	Sponsor	: IRPA 09-02-02-0044 (RM457,000.00)
	Role	: Project Leader
	Duration	: 1999 - December 2002
	Status	: Completed
2.	Title	: Development of a Machine Faults Diagnostics System Using Air Borne Ultrasonic Signals
	Sponsor	: IRPA 09-02-02-0056 (RM253,000.00)
	Role	: Project Leader
	Duration	: 1999 - December 2002
	Status	: Completed
3.	Title	: Development of Noise Absorption Structural Panels Using Coir Fibre/TPNR Composites
	Sponsor	: IRPA 09-02-02-0101(RM123,002.00)
	Rule	: Project Leader
	Duration	: 2000 - February 2003
	Status	: Completed.
4.	Title	: Development of MEMS Instrumentation and Diagnostic Systems for Automotive Applications
	Sponsor	: IRPA 03-02-02-0016-SR0003/07-02(RM3,885,720.00)
	Role	: Project Leader
	Status	: Completed June 2007.
5.	Title	: Penyelidikan Mengenai Pendidikan Berasaskan Hasil (PBH) di Fakulti Kejuruteraan, UKM
	Sponsor	: KK005/2005 (RM27,716.00)
	Role	: Project Leader
	Status	: Completed June 2007.
6.	Title	: Vibro-Acoustics Modeling, Prediction and Development of Control Systems for Road Transport
	Sponsor	: 03-01-02-SF0081(RM55,998.00)
	Role	: Project Leader
	Status	: Completed 2009.
7.	Title	: Development of Active Sound Absorption Panel Using Agro-Based Organic Fibre
	Sponsor	: 03-01-02-SF393 (RM129,000.00)
	Role	: Project Leader
	Status	: Completed 2009.



## 4.2 CONSULTANCY

1.	Title	:	Noise Study for Environmental Impact Assessment (EIA), Report for Connaught Bridge Power Station
	Client	:	Tenaga Nasional Berhad
	Role	:	Project Leader Assistant & Chief Consultant
	Status	:	Completed (1990/91)
2.	Title	:	Noise Study for Environmental Impact Assessment (EIA), Report for Sultan Iskandar Power Station.
	Client	:	Tenaga Nasional Berhad
	Role	:	Consultant (Noise and Vibrations)
	Status	:	Completed (1990/91)
3.	Title	:	Detailed Noise Study for Environmental Impact Assessment (EIA), Addendum Report for Connaught Bridge Power, Kelang.
	Client	:	Tenaga Nasional Berhad
	Role	:	Consultant (Noise and Vibration)
	Status	:	Completed (1991)
4.	Title	:	Noise Study for Environmental Impact Assessment (EIA), Report Shell Oil Refinery Plant, Port Dickson
	Client	:	Consultancy Team, Ranhill and Associates Co.
	Role	:	Consultant (Noise and Vibrations)
	Status	:	Completed (1991)
5.	Title	:	Preliminary Study on Noise Impact for Additional Installation of 3 X 33 MW Gas Turbines for Connaught Bridge Power Station, Kelang
	Client	:	Tenaga Nasional Berhad
	Role	:	Consultant (Noise and Vibration)
	Status	:	Completed (1992)
6.	Title	:	Installation of 3 X 33 MW Gas Turbines for Sultan Sallahuddin Power Station, Kapar
	Client	:	Tenaga Nasional Berhad
	Role	:	Consultant (Noise and Vibration)
	Status	:	Completed (1992)
7.	Title	:	Noise Study for 'Environmental Impact, Assessment (EIA), Report for Petronas Refinery Plant (Melaka) Sdn Bhd.
	Client	:	Petronas
	Role	:	Consultant (Noise and Vibration)
	Status	:	Completed (Nov 1997)

8.	Title	:	Detailed Environmental Impact Assessment Study, Proposed 2100MW Coal-Fired Power Station at Manjung, Perak.
	Client	:	Tenaga Nasional Research & Development Sdn Bhd.
	Role	:	Consultant (Noise and Vibration)
	Status	:	Completed (1997)
9	Title	:	Environmental Impact Assessment for Guthrie Corridor Expressway
	Client	:	Guthrie
	Role	:	Consultant (Noise and Vibration)
	Status	:	Completed (October 1997)
10	Title	:	Environmental Impact Assessment Study, Proposed Kuantan-Kerteh Railway Line
	Client	:	KTM
	Role	:	Consultant (Noise and Vibration)
	Status	:	Completed (1997/98)
11	Title	:	Environmental Impact Assessment for Co-generation Plant at Bandar Utama
	Client	:	IPP Bandar Utama
	Role	:	Consultant (Noise and Vibration)
	Status	:	Completed( 1998)
12	Title	:	Diagnostics of Low Frequency Sound and Vibration Problem at IPP Port Dickson
	Client	:	IPP Port Dickson
	Role	:	Consultant (Noise and Vibration)
	Status	:	Completed(April 1998)
13	Title	:	Detailed Environmental Impact Assessment Study, Proposed 1000MW Coal-Fired Power Station at Pulau Bunting, Kedah.
	Client	:	IPP Pulau Bunting
	Role	:	Consultant (Noise and Vibration)
	Status	:	Completed (1998/1999)
14	Title	:	Dynamic Engineering Analysis of Jaques Primary Rock Crusher.
	client	:	Jaques Stone Crusher
	Role	:	Project Leader
	Status	:	Completed (November 1999)
15	Title	:	Noise Study for New Railway Line Project from Tg. Pelapas to Kempas Baru, Johor.
	client	:	KTM
	Role	:	Consultant (Noise & Vibration)
	Status	:	Completed (November 1999)

16	Title	:	Environmental Impact Assessment Study for Petronas MLBO Project, Melaka
	Client	:	Petronas
	Role	:	Consultant (Noise and Vibration)
	Status	:	Completed (November 1999)
17	Title	:	Environmental Impact Assessment Study for the Extension of the Amoco Process Plant, Kuantan, Pahang.
	Client	:	Dames and Moore
	Role	:	Consultant (Noise and Vibration)
	Status	:	Completed (February 2001)
18	Title	:	Environmental Impact Assessment Study for Coal Fibred Power Generation Plant, Jimah, N. Sembilan.
	Client	:	IPP Jimah
	Role	:	Consultant (Noise and Vibration)
	Status	:	Completed (2000)
19	Title	:	Construction of Putrajaya Convention Centre, Precinct 5, Putrajaya.
	Client	:	UKM and IJM Construction Sdn Bhd.
	Role	:	Acoustic and Vibration Consultant
	Status	:	Completed 2004
20	Title	:	Chiller Noise and Vibration Analysis, Technology Park Malaysia, Bukit Jalil, K.Lumpur
	Client	:	Perunding HTA Sdn Bhd.
	Role	:	Acoustic and Vibration Consultant
	Status	:	Completed, November 2001
21	Title	:	Oilfield Pipeline Inspection Sdn Bhd
	Client	:	Oilfield Pipeline Inspection Sdn Bhd
	Role	:	Technical Advisor
	Status	:	Since December 2002
22	Title	:	Environmental Impact Assessment Study for Petronas Co-Generation Plant, Petronas, Melaka
	Client	:	Generation Plant, Petronas, Melaka
	Role	:	Consultant (Noise and Vibration)
	Status	:	Completed (August 2004)
23	Title	:	Environmental Impact Assessment Study for Petronas Cooling Tower and MG3 Project, Petronas, Melaka
	Client	:	Tower and MG3 Project, Petronas, Melaka
	Role	:	Consultant (Noise and Vibration)
	Status	:	On-going since 2005
24	Title	:	Proposed Development of Lido Boulevard at Johor Bahru, Johor
	Client	:	
	Role	:	Consultant (Noise and Vibration)
	Status	:	On-going since 2005
25	Title	:	The modification for roof insulation of Auditorium/Amphitheatre
		:	Dewan Bahasa dan Pustaka, Kuala Lumpur. The measurement of
		:	RT and impact test for the hall and ceiling absorption materials.

	Client	:	Dewan Bahasa dan Pustaka
	Role	:	Acoustics Consultant
	Status	:	Completed 2005
26	Title	:	Vibration Control for the Installation microscope at Operation Theatre, Hospital Serdang, Selangor.
	Client	:	IA & Acoustics Sdn Bhd. And PHTA Acoustic Consultant Sdn Bhd
	Role	:	Acoustics Consultant
	Status	:	Completed March 2005
27	Title	:	Noise and Vibration Control for the Newly constructed gas turbine combined cycle plant of TNB Port Dickson Power Plant.
	Client	:	Tenaga Nasional Research Berhad Acoustics Consultant
	Role	:	Consultant (Noise and Vibration)
	Status	:	Completed July 2005
28	Title	:	Noise Assessment and Modeling Proposed Co-Generation Expansion Project at PPMSB Tenaga Nasional Research Berhad
	Client	:	UKMPakarunding Sdn Bhd. And Shiryo (M) Sdn Bhd.
	Role	:	Consultant (Noise and Vibration)
	Status	:	Completed October 2007 – 2008.
29	Title	:	Noise Assessment and Modeling Proposed BioGen's Full Scale Model (FSM), SREP Plant at Mukim Serting, Jempol Negeri Sembilan, Complete With Theoretical Training for the Client's Staff.
	Client	:	Malaysia Energy Centre (PTM)
	Role	:	Consultant (Noise and Vibration)
	Status	:	Completed October 2008
30	Title	:	Thirty Days Continuous Noise and Vibration Monitoring for Puteri Harbor, JSNAC and Nusajaya Project.
	Client	:	UEM Land and UKMPakarunding
	Role	:	Consultant (Noise and Vibration)
	Status	:	Completed September 2009
31	Title	:	Detail EIA for 300MW Coal-Fired Power Plant Project, Sandakan, Sabah
	Client	:	UKMPakarunding and TNB
	Role	:	Consultant (Noise and Vibration)
	Status	:	Completed June 2009
32	Title	:	DEIA Study for 300MW Coal – Fired IPP Project at Kg. Kenchana, Felda Sahabat, Lahad Datu, Sabah
	Client	:	UKMPakarunding and TNB
	Role	:	Consultant (Noise and Vibration)
	Status	:	August 2009 – 2010.

## Conference and Short Course

No.	Title	Role	Date	Venue
1.	Program Pembangunan Kepimpinan Tunas Akademia 2011, AKEPT - UPM.	Speaker	29 <sup>th</sup> Nov. 2011	AKEPT, Sepang.
2.	Kursus Kaedah Penyelidikan Siri 3/2011, UTeM.	Speaker	26 <sup>th</sup> Nov. 2011	Port Dickson.
3.	Kursus Kepimpinan Pensyarah Muda, AKEPT – USM.	Speaker	16 <sup>th</sup> Nov. 2011	Pulau Pinang.
4.	Taklimat Etika Dalam Perlaksanaan Penyelidikan - UPM	Speaker	16 <sup>th</sup> August 2011.	UPM, Sg Besi.
5.	18 <sup>th</sup> International Congress of Sound and Vibration.	Presenter	10 <sup>th</sup> – 14 July. 2011	Rio de Janeiro, Brazil.
6.	What it Takes to be a World Class Research University - MOHE & Thompson Reuters.	Invited Speaker	1 <sup>st</sup> July 2011	PICC Putrajaya.
7.	18 <sup>th</sup> International Congress of Sound and Vibration.	Speaker	10 <sup>th</sup> – 14 July. 2011	Rio de Janeiro, Brazil.
8.	Winning The Heart and Mind of Staff - MOHE	Participant	15 <sup>th</sup> Jun 2011	Putrajaya.
9.	Research Excellence Forum – Elsevier.	Invited Speaker	23 <sup>rd</sup> Feb 2011.	K. Lumpur
10.	Seminar Perancangan Strategik Pengajian Tinggi Tahun 2011.	Participant	21 <sup>st</sup> – 23 <sup>rd</sup> Jan 2011.	Port Dickson
11.	UKM-Stevens Institute of Technology Capacity Building in Innovation, Technology Transfer and University Start-up.	Panel	26 <sup>th</sup> July – 4 <sup>th</sup> August 2010.	UKM, Bangi.
12.	Program Pengurusan Penyelidikan AKEPT – MOHE.	Speaker	29 <sup>th</sup> – 30 <sup>th</sup> July 2010	K. Lumpur
13.	Kolokium Fakulti Sains dan Teknologi UKM: Strategi KPT Memperkasa Universiti Penyelidikan.	Keynote Speaker	23 <sup>rd</sup> July 2010.	Holiday Inn, Melaka.
14.	Strategies of Scientific Research in the Universities of the Muslim World: Reality and Prospects.	Keynote Speaker	6 <sup>th</sup> – 8 <sup>th</sup> July 2010.	K. Lumpur

15.	3 <sup>rd</sup> Regional Conference on Noise Vibration Conference (NVC 2010).	Honorary Chairman, Organising Committee.	Pullmann Hotel, Putrajaya	29 <sup>th</sup> – 30 <sup>th</sup> June 2010.
16.	Workshop on High Performance Business Culture	Participant	23 <sup>rd</sup> – 25 <sup>th</sup> April 2010	Kota Kinabalu, Sabah
17.	Seminar by The Japan Society for the Promotion of Scientific Research (JSPS) Programme	Presenter	27 <sup>th</sup> Feb – 4 <sup>th</sup> Mac 2010	Kyoto University, Japan
18.	Bengkel Penulis Super	Participant	29 – 31 <sup>st</sup> Jan. 2010	Kuala Lumpur
19.	Seminar Ireland – Malaysia 4 <sup>th</sup> Level: Research and Postgraduate Study	Presenter	11 <sup>th</sup> January 2010	Prince Hotel, K. Lumpur
20.	Persidangan Kebangsaan IKS Bumiputera 2009	Invited Speaker	10 <sup>th</sup> March 2009	PWTC Kuala Lumpur.
21.	Bengkel Meningkatkan Prestasi Kerja Berpasukan (Team Building)	Participant	24 – 26 <sup>th</sup> July 2009	Pulau Pangkor, Perak
22.	Bengkel Penambaihan Perancangan Strategik Dan Pelan Tindakan INFAD, USIM.	Presenter	15 -17 <sup>th</sup> May 2009	Sepang, Malaysia
23.	Conference 'Leading Change in Tough Times' -by Prof. John Kotter (Harvard)	Participant	17 <sup>th</sup> March 2009	KLCC Kuala Lumpur.
24.	'Bring the Future to the Present: Theory and Application' - by Prof. Moshe F. Rubinstein - UCLA	Participant	4 <sup>th</sup> March 2009	Subang.
25.	Seminar on Research-Led Universities by Sir Brian Smith, Cardiff University	Participant	18 <sup>th</sup> Feb 2009	Marriot, Putrajaya.
26.	Bullet - Proff Patents and Patent Strategy Workshop -by Daryl Mann IFS	Participant	2 <sup>nd</sup> – 3 <sup>rd</sup> Feb 2009	Equatorial BBBangi
27.	16 <sup>th</sup> International Congress of Sound and Vibration.	Presenter	5 <sup>th</sup> – 9 <sup>th</sup> July 2009	Krakaw, Poland
28.	Forum Quality and Excellence in Higher Education	Presenter	11 <sup>th</sup> August 2009	Kuala Lumpur
29.	Kongress Pengajaran & Pembelajaran UKM 2009	Presenter	14 <sup>th</sup> – 15 <sup>th</sup> Dec 2009	Awana Porto Malai, Langkawi

30.	15 <sup>th</sup> International Congress of Sound and Vibration.	Presenter	6 <sup>th</sup> -10 <sup>th</sup> July 2008	Daejeon, South Korea.
31.	13 <sup>th</sup> International Conference on Applied Mechanics and Mechanical Engineering.	Presenter	. 27 <sup>th</sup> – 29 <sup>th</sup> May 2008	Cairo, Egypt.
32.	Persidangan Pengajaran dan Pembelajaran Di Peringkat Tinggi.	Invited Speaker	12 – 14 Disember 2007	Palace of the Golden Horses, Seri Kembangan, Selangor
33.	Regional Conference on Advances in Noise, Vibration and Comfort 2007.	Conference Chairman	27 <sup>th</sup> – 28 <sup>th</sup> November 2007	Palm Garden, Putrajaya.
34.	14 <sup>th</sup> International Congress of Sound and Vibration.	Presenter	9 <sup>th</sup> -12 <sup>th</sup> July 2007	Cairns, Australia
35.	Bengkel Pemantapan Kokurikulum Penilaian Tahap Kecekapan (PTK) Akademik, UKM.	Participant	30 <sup>th</sup> July 2007	Palm Garden Hotel IOI Resort, Putrajaya
36.	Program Pemantapan Akademik Pelajar, Fakulti Kejuruteraan, UKM.	Penceramah	29 <sup>th</sup> July 2007	Bilik Mesyuarat Fakulti Kejuruteraan
37.	Bengkel Pelaksanaan Universiti Penyelidikan 2007 – 2008, UKM	Participant	30 June 2007	Marriot Hotel, Putrajaya
38.	Bengkel “Outcome Based Education”	Penceramah / Fasilitator	27 – 28 June 2007	Universiti Malaysia Sabah
39.	Kursus Penilaian tahap Kecekapan (PTK 5)	Penceramah	19 – 22 June 2007	Kelab Golf Danau, UKM Bangi
40.	Bengkel OBE / MQF	Penceramah	15 June 2007	Bilik Seminar PPSKTM, FST, UKM.
41.	Bengkel MQF	Penceramah	11 June 2007	P. Pengajian Sains Sekitran dan Sumber Alam, UKM
42.	Bengkel (MQF) Pemantapan Program Sarjana Muda Syariah dan Undang – Undang dan Sarjana Muda Fiqh dan Fatwa 2007, USIM.	Penceramah	7 June 2007	Selesa Beach Resort Port Dickson

43.	Bengkel Kesedaran MQF, FST, UKM	Penceramah	9 April 2007	Kelab Golf Danau, UKM
44.	Bengkel Pemantapan Kursus Fakulti	Penceramah	2 & 3 April 2007	Fakulti Kejuruteraan
45.	Taklimat (MQF) Kerangka Kualiti Malaysia	Penceramah	7 Mac 2007	Fakulti Undang – Undang
46.	Kursus Jati Diri dan Kecemerlangan Akademik	Penceramah	24 Februari 2007	Kolej Matrikulasi Kuala Pilah, Negeri Sembilan
47.	Bengkel Pemantapan Program Akademik Selaras Keperluan Kerangka Kelayakan Malaysia	Participant	12 Februari 2007	Hotel Equatorial
48.	Engineering Accreditation Council Malaysia (EAC) Seminar on Outcome-Based Education	Invited Speaker	21 <sup>st</sup> Sept. 2006	Equatorial Hotel, B. B. Bangi
49.	Bengkel Islam Hadari “Menggilap Kecemerlangan Pelajar Islam Dalam Bidang Kejuruteraan di IPTA”	Speaker	15 <sup>th</sup> June 2006	Kelab Golf Danau, UKM
50.	Bengkel Persediaan Audit Pengawasan ISO, Pusat Pengajian Siswazah, UKM.	Speaker	15 <sup>th</sup> April 2006	Equatorial Hotel, B. B. Bangi
51.	Kursus Penilaian Tahap Kecekapan (PTK5), Universiti Kebangsaan Malaysia (UKM): Penilaian Kurikulum Akademik.	Invited Speaker	10 <sup>th</sup> February 2006	Universiti Teknologi Malaysia, Johor.
52.	Seminar “Outcome-Based Education (OBE)”	Participant	16 <sup>th</sup> January 2006	Universiti Tenaga Nasional (UNITEN)
53.	Kursus Penilaian Tahap Kecekapan (PTK6) – Kumpulan 8	Penceramah	19 <sup>th</sup> Dec. 2005	Makmal Komputer, FTSM.
54.	Regional Conference on Engineering Education	Participant	12 <sup>th</sup> – 13 <sup>th</sup> December 2005	Eden Garden Hotel, Johor Bahru



55.	Seminar Dalaman Fakulti Kejuruteraan: Pengajaran dan Pembelajaran Berkesan	Chairman / Speaker	5 <sup>th</sup> December 2005	Puri Pujangga, UKM
56.	Short Course on Noise Behaviour and Analysis Training for Ship Applications.	Speaker	10 & 11th October 2005	TLDM Base, Lumut, Perak.
57.	Seminar on Outcome-Based Education	Speaker	13 October 2005	KUKUM, Kangar, Perlis.
58.	Seminar on Outcome-Based Education	Speaker	3 <sup>rd</sup> – 4 <sup>th</sup> October 2005	Kuala Lumpur Infrastructure University College
59.	The 5 <sup>th</sup> Comparative Education Society of Asia Biennial Conference 2005.	Chairperson Plenary Paper II	31 <sup>st</sup> May 2005	Centre for Education Advancement, UKM.
60.	The 5 <sup>th</sup> Comparative Education Society of Asia Biennial Conference 2005.	Chairperson Plenary Paper II	31 <sup>st</sup> May 2005	Centre for Education Advancement, UKM.
61.	National Seminars: Noise Vibration & Comfort (NVC2005). Computational & Experimental Mechanics (CEM 2005). Advanced Processes and Systems in Manufacturing (APSIM 2005)	Chairman	17 <sup>th</sup> – 18 <sup>th</sup> May 2005	ESSET, B. B. Bangi
62.	33 <sup>rd</sup> International Exhibition of Inventions, 2005.	Participant	6 <sup>th</sup> – 10 <sup>th</sup> April 2005	Geneva, Switzerland
63.	Workshop on Outcome-Based Education for all Engineering Faculties in Malaysian Public Universities: Driving Culture Change.	Presenter	15 <sup>th</sup> – 17 <sup>th</sup> Feb. 2005  12 <sup>th</sup> – 14 <sup>th</sup> April 2005	Pan Pacific, KLIA  Equatorial Hotel, B.B.Bangi
64.	Bengkel Manual Akreditasi, Program Kejuruteraan Edisi Ketiga (2005)	Participant	4 <sup>th</sup> – 6 <sup>th</sup> March 2005	Hilton Hotel, Petaling Jaya..
65.	Malaysia Education Fair 2005	Presenter	25 <sup>th</sup> – 28 <sup>th</sup> Feb. 2005	Jakarta & Bandung, Indonesia.

66.	Seoul International Invention Fair, 2004	Participant	10-14 <sup>th</sup> Dec. 2004	Seoul, Korea
67.	Faculty of Engineering Colloquium 2004	Presenter	7-9 <sup>th</sup> June 2004	De Rhu Beach Resort, Kuantan
68.	A Wavelet Tour of Signal Processing Workshop	Presenter	1 <sup>st</sup> June 2004	Faculty of Engineering, UKM
69.	International Conference on Postgraduate Education	Participant	26-27 May 2004	Hilton Hotel, Petaling Jaya
70.	Retreat on Evaluation and Modification for Faculty Courses, Faculty of Engineering, UKM	Presenter	21-23 May 2004	Swiss Garden Resort, Damai Laut, Lumut, Perak
71.	Graduate of Science and Technology Assessment Workshop	Presenter	11-12 May 2004	Equatorial Hotel, Bangi
72.	Internal Management Restructuring Workshop, UKM	Presenter	7-9 May 2004	Hyatt Regency Hotel, Kuantan
73.	OBE Information/ Knowledge Sharing Workshop, Engineering Accreditation Council (EAC) Malaysia	Presenter	5-6 May 2004	IOI Resort Hotel, Putrajaya
74.	Faculty of Engineering Post-Graduate Programme Retreat, UKM	Chairman	1-3 May 2004	Royal Adelphi Hotel, Seremban
75.	Series of Vibration Seminar	Presenter	16-17 April 2004	Universiti Malaysia Sabah
76.	Automotive NVH Course and Hands-On Training on Pulse and STSF	Participant	23 - 27 February 2004	B & K University, Denmark.
77.	Retreat Guidelines for MEMS Automotive Research: Instrumentation and Diagnostic Group	Participant & Chairman	9-11 January 2004	A Famosa Resort, Melaka
78.	The Principles and Practice of an Academic Support Programme for Engineering Students Workshop	Participant	28- 29 January 2004	Equatorial Hotel, Bangi
79.	ABET Faculty Workshop	Presenter	30 December 2003	Cyberview Lodge Resort, Cyberjaya
80.	ABET Workshop	Participant	9 – 11 December 2003	NUS, Singapore.

81.	Third International Conference Advances in Strategic Technologies	Presenter	12 – 14 August 2003	Renaissance Hotel Kuala Lumpur.
82.	Fourth Regional Conference on Computational Mechanics and Numerical Analysis	Keynote Speaker	5 April 2003	Banda Aceh, Indonesia.
83.	Second International Conference on Applied Physics and Its Environmental Aspects	Presenter	December 2003	Solo, Indonesia.
84.	Siries of Seminar on Building Acoustics	Presenter	26-27 December 2002	Universiti Malaysia Sabah
85.	International Conference on Environmental Management: Ten Years After Rio	Presenter & Secretariat	22-23 October 2002	Equatorial Hotel, Bangi. Bangi
86.	Faculty of Engineering Graduate Research Presentation Seminar, UKM	Invited Speaker	9 <sup>th</sup> October 2002	Residence Hotel, UNITEN
87.	Colloquium, Department of Mechanical and Materials Engineering, UKM	Presenter & Secretariat Advisor	11-13 October 2002	Riviera Beach Resort, Melaka
88.	Crash Course in Building Acoustics	Participant	10 -12 <sup>th</sup> September 2002	Lyon, France
89.	Assessment Teaching Workshop	Participant	26 <sup>th</sup> July 2002	Faculty of Engineering, UKM
90.	Series Seminar on Building Acoustics	Presenter	17-18 May 2002	Universiti Malaysia Sabah
91.	Fourth International Conference on Quality Reliability and Maintenance	Presenter & Session Chairman	21-22 March 2002	Oxford University, UK
92.	Series Seminar on Building Acoustics	Presenter	17-18 January 2002	Universiti Malaysia Sabah

93.	Department of Mechanical and Materials Colloquium	Presenter & Secretariat Advisor	14-16 September 2001	De Rhu Beach Resort, Kuantan
94.	First Kentingan Physics Forum. International Seminar on Physics and Physics Education	Invited Speaker	23-24 July 2001	Universitas Sebelas Maret, Solo, Indonesia
95.	Noise Pollution Seminar	Invited Speaker	25 July 2001	Yogyakarta, Indonesia
96.	Acoustic Seminar	Invited Speaker	12 January 2001	UIAM, Jalan Gombak, K. Lumpur
97.	Noise Analysis Seminar: Solution for the New Millennium	Invited Speaker	22 Nov. 2000	Kiara Equestrian & Country Resort, K. Lumpur.
98.	Second International Conference on Advances in Strategic Technologies	Presenter	15 – 17 August 2000	Putrajaya, Malaysia
99.	Matlab & Simulink Professional Training	Participant	June 2000	Bandar Kinrara, Selangor
100.	Interview Techniques Course	Participant	16 –17 May 2000	Universiti Keb. Malaysia
101.	International Conference on Disaster Management – Lesson to be Learnt, Organised by Universiti Utara Malaysia (UUM)	Keynote Speaker	29th April 2000	Langkawi, Malaysia
102.	Third International Conference on Quality Reliability and Maintenance	Presenter & Session Chairman	29 – 30th March 2000	Oxford University, U.K.
103.	International Conference on Teaching and Learning: Strategising Teaching and Learning in the 21st Century	Presenter	24 – 25 <sup>th</sup> November 1999	Putrajaya

104.	Third Asian International Automotive Engineering Industry Exhibition and Conference	Invited Speaker	25th November 1999	The Malaysian International Exhibition and Showroom (M.I.N.E.S.)
105.	World Engineering Congress	Presenter	1999	Mechanical and Manufacturing Engineering Universiti Putra Malaysia
106.	Course Assessment Workshop, National Accreditation Board	Participant	November 1998	LAN, Petaling Jaya
107.	Second International Conference: Planned Maintenance Reliability and Quality	Presenter & Session Chairman	April 1998	Oxford University, UK
108.	Short Course 'SKF Training in Condition Monitoring'	Participant	2-7 May 1993	San Diego, U.S.A.
109.	Short Course and Attachment Programme in 'Machine Condition Monitoring' sponsored by Asian Development Bank (ADB)	Participant	1 <sup>st</sup> June – 3 <sup>rd</sup> July 1992	Headquarters of Bruel & Kjaer, Denmark dan Sheffield Hallam University, U.K.
110.	Predictive and Preventive Maintenance Seminar	Participant	27-28 February 1992	Park Royal Hotel, Kuala Lumpur
111.	Short Course on 'Practical Ultrasonic Testing with the Krautkramer USD 10 Instrument'	Participant	January 1992	Koln, Germany
112.	Hearing Conservation Programme	Participant	13-15 August 1991	Pulau Pinang
113.	Research Methodology	Participant	20 May – 21 June 1991	Universiti Malaya, K. Lumpur
114.	Non-Destructive Testing Using Ultrasonic Method – Level 2	Participant	11-26 November 1990	SIRIM, Shah Alam, Selangor

115.	Writing Guide for Journal Papers	Participant	11-12 September 1990	UKM, Bangi, Selangor
116.	Training on the Application of CATIA (Computer Aided Three Dimensional Interactive Applications) Software	Participant	2-19 May 1989	Bangkok, Thailand
117.	Finite Element Method and Introduction to Boundary Element Method	Participant	3-7 April 1989	Universiti Malaya, Kuala Lumpur

## 5.0 Administrative

### 5.1 Department Level

1. Head of Department, Department of Mechanical and Materials Engineering, UKM, 1<sup>st</sup> April 1999 – 31<sup>st</sup> May 2003.
2. Advisor, Organising Committee, Third Colloquium Department of Mechanical and Materials Engineering, UKM, 2002.
3. Advisor, Organising Committee, Second Colloquium Department of Mechanical and Materials Engineering, UKM, 2001.
4. Advisor, Organising Committee, First Colloquium Department of Mechanical and Materials Engineering, UKM, 1999.
5. Steering Committee, Master of Science by Course Programme, Department of Mechanical and Materials Engineering, 1999.
6. Manager, Applied Mechanical Laboratory, March 1997 – Present
7. Member of Research, IRPA Utilization of Indigenous Materials and Resources 2-07-03-002. Group 1991-92.
8. Manager, Department of Mechanical and Materials Engineering Library UKM, 1990.
9. Manager, Graphic Centre for Department of Mechanical and Materials Engineering UKM/IBM, 1989-1991.

### 5.2 Faculty Level

10. Coordinator, UKM-KYPM Francais Program, Faculty of Engineering, UKM, Nov. 1997 until 30<sup>th</sup> March 1999

11. Deputy Dean (Academic Affairs), Faculty of Engineering, UKM, 1<sup>st</sup> June 2003 – present.
12. Chairman, Conference Committee, Faculty of Engineering.
13. Chairman, Mathematics Unit, Faculty of Engineering.
14. Chairman, Graduate Studies Committee, Faculty of Engineering
15. Chairman, Examination Committee (Undergraduate and Postgraduate), Faculty of Engineering
16. Chairman, Committee for Standardisation of Grades (Undergraduate & Postgraduate), Faculty of Engineering.
17. Chairman, Committee for Standardisation of Examination Papers, Faculty of Engineering.
18. Chairman, Academic Planning and Development Committee, Faculty of Engineering
19. Chairman, Committee for Postgraduate Seminar, Faculty of Engineering, UKM, 15<sup>th</sup>-16<sup>th</sup> October 2003, NIOSH, Bangi, Selangor.
20. Guest Speaker, Post- Graduate Seminar, Faculty of Engineering, “Research Methodology”, Residence Hotel, UNITEN Bangi, 9-10 October 2002.
21. Member, Faculty of Engineering Bowling Team, 2001, 2002.
22. Member, Committee for Internationalisation Programme, Faculty of Engineering, UKM. From September 2002.
23. Member, Committee for Self- Evaluation Programme, Faculty of Engineering, UKM. From July 2002.
24. Supervisor, UKM-KYPM Français Programme, Nov. 1997-2000.
25. Secretary, Organising Committee, Short Course in Machine Condition Monitoring, Department of Mechanical & Materials Engineering and Research & Consultancy Bureau UKM, 21-23 December 1992.
26. Editor, Proceedings Third Colloquium Faculty of Engineering, UKM, 1991.
27. Member, Organising Committee, 3rd Colloquium Faculty of Engineering, UKM, 1991.

### 5.3 University / National Level

28. **Editorial Board Member**, Asean Journal of Teaching and Learning in Higher Education 2011.
29. **Mentor**, Program Pementoran Kementerian Pengajian Tinggi, 2011.

30. **Ahli Jawatankuasa Penyelaras Kebangsaan Untuk Makanan dan Pemakanan (*National Coordinating Committee on Food and Nutrition, NCCFN*)**, 2011 – 2013.
31. **Panel Penilai**, Bidang Kejuruteraan Mekanikal, Agensi Kelayakan Malaysia (MQA), 2011.
32. **Ahli Panel**, Jawatankuasa Penilaian *Outcome* Peringkat Pengajian Tinggi, 2011.
33. **Pengerusi**, Projek Agenda Kritikal – Pusat Kecemerlangan, Kementerian pengajian Tinggi, 2011 – 2013.
34. **Member**, Cluster Working Group (CWG) on Human Capital Development For The Biotechnology Industry, 2009 – Sept. 2011.
35. External Examiner, School of Mechanical Engineering Programme, Universiti Sains Malaysia, December 2009.
36. External Examiner, MSc Thesis, Universiti Putra Malaysia, Title: *Vibration-Induced Stress of a Natural Gas Vehicle Platform*, April 2008.
37. External Examiner, MSc Thesis, Pusat Pengajian Sains Matematik, Universiti Sains Malaysia. Thesis Title: *Noise Modeling in Universiti Sains Malaysia and Offshore Oil and Gas Platform*, Ogos 2007 .
38. External Examiner, MSc Thesis, Pusat Pengajian Sains Matematik, Universiti Sains Malaysia. Thesis Title: *Noise Modeling in Universiti Sains Malaysia and Offshore Oil and Gas Platform*, Ogos 2007 .
39. Reviewer - Technical Papers, TECHPOS '06, Faculty of Engineering, Universiti Malaya, March 2006.
40. External Examiner, MSc Thesis, Faculty of Mechanical Engineering, Universiti Teknologi Mara, Thesis Title: *Dynamic Characterization of Fibre Reinforced Composite (S-Glass) in Rigid Armour Vehicle*, 9<sup>th</sup> March 2006.
41. Panel Penilai, Biasiswa Penyelidikan 'National Science Fellowship (NSF)' 2006, Kementerian Sains, Teknologi dan Inovasi Malaysia, 26 September 2006.
42. Invited Speaker, Workshop on Outcome-Based Learning, Faculty of Electrical Engineering, Universiti Teknologi MARA, Shah Alam, Selangor, 5<sup>th</sup> September 2006.
43. Invited Speaker, Engineering Accreditation Council Malaysia (EAC) Seminar on Outcome-Based Education, Equatorial Hotel, Bangi, 21<sup>st</sup> September 2006.
44. Expert Panel, for the Accreditation of Diploma in Electrical Engineering (Mechatronic) Programme, Institute Teknologi Perak, Ipoh, National Accreditation Board Malaysia, 10<sup>th</sup> & 11<sup>th</sup> August 2006.
45. Ahli, Jawatankuasa Kecil Senat Memperhalusi Pelaksanaan Sains dan Matematik dalam Bahasa Inggeris (SMI), 2005-2006.
46. Committee for Academic Development and Planning, UKM.
47. Member, Committee for Off Campus Programme, UKM.



48. Member, ISO Documentation Committee, PPS, UKM.
49. Member, Committee for Evaluation of IRPA Research Proposal, Manufacturing Sector, UKM.
50. Member, Sub Committee Information Technology Academic Programme, UKM, until Nov. 2003.
51. Chairman, Panel of Expert: Proposal for Industry Grant Scheme (IGS) Research Project. Title: "High Performance Active Hybrid Engine Mounts", Ministry of Science Technology and Environment, Malaysia, March 2003.
52. Expert Panel, for the Accreditation of Diploma in Mechatronic Engineering Programme, Institute Teknologi Perak, Ipoh, National Accreditation Board Malaysia, April 2004.
53. Expert Panel, for the Accreditation of Diploma in Mechatronic Engineering Programme, Inpens International College, Pulau Indah, Kelang, National Accreditation Board Malaysia, October 2005.
54. Invited Scientist, Institute of Advanced Technology, Universiti Putra Malaysia, 2002.
55. Guest Speaker, Student Centred Teaching Strategy, Academic Improvement Programme, UKM, Renaissance Palm Garden Hotel Putrajaya, 2<sup>nd</sup> July 2003.
56. Advisor, UKM Solar CAR Racing Team, World Solar Car Championship Malaysia 2002, Sepang International Circuit, Putrajaya, 28-29 October 2002.
57. Special Quality Award, Laboratory Management Award, Universiti Kebangsaan Malaysia, 11<sup>th</sup> October 2002.
58. Judge, Invention Competition, 30<sup>th</sup> UKM Convocation Festival, Universiti Kebangsaan Malaysia, 4<sup>th</sup> August 2002.
59. Expert Panel, Proposal for Industrial Grant Scheme (IGS) Research Project "New Generation Hybrid Highway & Environmental Noise Control Solution", Ministry of Science Technology and Environment, Malaysia, May 2002.
60. Expert Panel, Committee for the Evaluation of IRPA Research Proposal, Ministry of Science Technology and Environment, Malaysia, May 2002.
61. External Examiner, MSc Thesis, Department of Mechanical Engineering, Universiti Sains Malaysia. Thesis Title: *Analysis of Self-Energised Friction System*, March 2002.
62. External Examiner, MSc Thesis, Department of Mechanical Engineering, Universiti Sains Malaysia. Thesis Title: *Analysis of Drum Brake Squeal Using Finite Element Method*, June 2003.
63. External Examiner, PhD Thesis, Department of Electrical Engineering, Universiti Teknologi Malaysia, Thesis Title: *Sound Absorption Study of Wood Carving in Mosque*, 2002.

64. External Examiner, MSc Thesis, Dept. of Electrical and Electronic Engineering, Kolej Universiti Teknologi Tun Hussein Onn, Thesis Title: *Monitoring and Prediction Bearings Failure by Acoustic Emission and Neural Network*, Feb. 2005.
65. External Examiner, MSc Thesis, Dept. of Mechanical Engineering, Kolej Universiti Teknologi Tun Hussein Onn, Thesis Title: *Successive Over Relaxation Technique for Steady State and Dynamic Characteristics of Journal Bearing*, June 2005.
66. Expert Panel: for the Accreditation of Higher Diploma in Mechanical Engineering, Kolej Linton, Ipoh, National Accreditation Board, Malaysia, April 2002.
67. Facilitator: Students Excellent Academic Programme, 2001/2002 Sessions, UKM.
68. Judge, Invention Competition, 29<sup>th</sup> Convocation Festival, Universiti Kebangsaan Malaysia, 6<sup>th</sup> July 2001.
69. Member, Solar Car Racing Team, UKM at World Solar Car Championship Malaysia 2001, Shah Alam, Sepang International Circuit, Putrajaya, 10-12<sup>th</sup> June 2001.
70. Panellist, Panel of Expert: for the Accreditation of Certificate/ Diploma in Mechatronic Engineering, Kolej INPENS Selangor, National Accreditation Board, Malaysia, March 2001.
71. Member, Working Group Developing Malaysian Standard, Restraining Systems and Devices for Motor Vehicles, SIRIM, Malaysia. 2001.
72. Expert Panel, for the Accreditation of Certificate/ Diploma in Mechanical Engineering, Institut Kemajuan Iktisas Pahang (IKIP), National Accreditation Board, Malaysia, December 2000.
73. Expert Panel, Committee for Research and Development, National Institute of Occupational Safety and Health (NIOSH), 2000.
74. Panellist, Panel of Expert: for the Accreditation of Diploma in Mechatronic Engineering, INPENS College, Selangor, National Accreditation Board, Malaysia, May 1999.
75. Panellist, Panel of Expert: Proposal of Industrial Grant Scheme (IGS) Research Project No. KSTAS-IGS-GI-1997 (March 1997), Ministry of Science Technology and Environment, Malaysia.
76. Panellist, Panel of Expert, Committee for the Evaluation of IRPA Research Proposal, Manufacturing Sector, UKM.
77. Technical Paper Evaluator, Third National Technical Postgraduate Symposium 2004 (TechPos' 04), University Malaya, Kuala Lumpur.

## 6.0 OTHERS

### Speaker

1. **Penceramah**, Kursus Jati Diri dan Kecemerlangan Akademik, Kolej Matrikulasi, Kuala Pilah, Negeri Sembilan, 23 – 25hb Februari 2007.
2. **Penceramah**, Program Pemantapan Akademik Mahasiswa Muslim, Jabatan Kejuruteraan Mekanik & Bahan UKM, 2hb – 4hb Mac 2007, Dusun Eco Resort Bukit Tinggi, Pahang.
3. TV3 Prime Time News: Technology Segment  
Time: 8.30 am                      Date: 3<sup>rd</sup> September 2001  
Topic: Application Research Using Air-Particle Acceleration Signals and The Signature of Sound Capturing System
4. Invited Guest for TV3 Programme: Malaysia Hari Ini (MHI)  
Time: 8.30 am                      Date: 19<sup>th</sup> August 2001  
Topic: Effect of Noise Pollution to Humans
5. Invited Guest for TV3 Programme: Malaysia Hari Ini (MHI)  
Time: 8.30 am                      Date: 12<sup>th</sup> July 2001  
Topic: Development of Sound Absorption Panel Using Indigenous Materials.
6. Invited Guest for TV3 Programme: Malaysia Hari Ini (MHI)  
Time: 8.30 am                      Date: 9<sup>th</sup> July 2001  
Topic: Sound Signature Capturing System
7. Student Motivation: “Excellent Study Approach (in Malay),” Organised By Faculty of Engineering, UKM, 25<sup>th</sup> May 2001.
8. Student Motivation: “Study Towards Excellence: Concept and Execution (in Malay),” Organised by Faculty of Engineering Undergraduate Society (PEMATRA), UKM, 10<sup>th</sup> Jun 2000.
9. Representing Faculty of Engineering UKM, Engineering Career Week, Organised by Chermai College, Negeri Sembilan, 7<sup>th</sup> January 2000.
10. Invited Speaker for TV3 Programme: Study the Smart Way.  
Time: 10.30 – 11.00 am                      Date: 13 & 20 December 1997
11. Invited Personality for Live Radio Talk Programme: K.L. Hari Ini.  
Time: 10.30 pm – 11.30 pm                      Date: 16, 23 & 30th June 1997.
12. President, Sheffield Malaysian Students Association (SMSA), 1993/94.

### National Network Level

Collaboration with Standards and Industrial Research Institute of Malaysia (SIRIM)

Collaboration with National Institute of Occupational Safety and Health (NIOSH)

Collaboration with Malaysian Institute for Nuclear Technology Research (MINT)

Collaboration with PROTON

Invited Scientist, Advanced Technology Institute, Universiti Putra Malaysia.

## International Network Level

Steering Committee, 4<sup>th</sup> Regional Seminar on Computational Mechanics & Numerical Analysis (CMNA), 5<sup>th</sup> April 2003, Kuala Tripa Hotel, Banda Aceh, Indonesia.

Regional Advisory Committee, Regional Seminar on Aerospace Technology, 22<sup>nd</sup> – 23<sup>rd</sup> July 2003, Auditorium of Gadjah Mada University (UGM), Yogyakarta, Indonesia.

Advisor, Advanced Engineering Materials R&D Group (AEMUNS), Universitas Sebelas Maret, Surakarta, Indonesia.

Collaboration with Universities of England Consortium for International Activities (UNECIA), United Kingdom.

Collaboration with University of Bruel & Kjaer, Copenhagen, Denmark.

Collaboration with University of Western Australia.

Collaboration with University of Sebelas Maret, Surakarta, Indonesia.

Collaboration with University of Sumatera Utara (USU), Medan, Indonesia.

Collaboration with University of Unsyiah Kuala, Banda Aceh, Indonesia.

Representing Universiti Kebangsaan Malaysia, Association of Engineering Education for South East Asia, East Asia and Pacific (AEESEAP 2004)