



MOHD AZMAN YAHAYA (Dr.)

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Dr. Mohd Azman Yahaya obtained Bachelor of Science (B.Sc) in Mechanical Engineering in 1999 from Clarkson University, New York, United States of America and Master of Science (M.Sc) in Impact and Explosion Engineering in 2004 from the University of Manchester Institute of Science and Technology (U.M.I.S.T) United Kingdom. He then, obtained his Doctor of Philosophy (PhD) in Mechanical Engineering (Impact Mechanics of Advanced Material) in June 2015 from Swinburne University of Technology, Melbourne, Australia. While doing his PhD, he worked as a research assistant at Swinburne University executing project collaboration with Australian Defence Material Technology Center (DMTC). This project was funded by the Australian Government and granted him a top-up scholarship of AUD 600 per month for a year.

As a lecturer since 2002, he has taught degree level courses as well as conducting consultation and research work. He has published a number of technical papers in reputable journals and international conferences in the area of engineering education, impact mechanics, material response and energy absorption. In addition, Dr. Mohd Azman Yahaya was the Coordinator of Industrial Training from the year 2006-2009, and Coordinator of Graduate Employability from year 2015 – present at the Faculty of Mechanical Engineering, UiTM Shah Alam, Malaysia.

During his appointment as the coordinator of industrial training, he introduced a number of innovations to the faculty such as the use of student hand-book, proper design of industrial log-book and a set of industrial training regulation that is currently employed in the faculty. The innovations were not limited in the faculty level but also in the university level. In 2008, he set up a programme to send students overseas for their industrial training with applied fund of RM 500k from the Ministry of Science and Technology (MOSTI). In the programme, several students had the opportunity to carry out their industrial training in Germany, Korea as well as Japan. Industries involved in the programme include Daimler-Chrysler and Tyssen-Krupp in Germany and In-plant Tech in Korea.

As the coordinator of student employability, Dr. Mohd Azman Yahaya has joined several courses conducted by consultants as well as the university to study how the graduates can survive in the challenging job market in Malaysia and worldwide. He also held a certificate of competency from Malaysia Productivity Corporation (MPC) in efficient management. In order to increase the employability potential of Mechanical Engineering UiTM graduates, he has invited several parties either private companies or Government Link Corporations (GLC) to get involved in enhancing the students' soft-skills. The involvement of students in SHRDC-TalentCorp programme, FKM-NIOSH programme and 1Asian Entrepreneurship Summit 2015 are the examples of his dedication and seriousness in developing the student employability potential. He even set-up a novel and cost-saving English programme in order to prepare the student with good English proficiency before they start job hunting.

CURRENT CONTACT AND ADDRESS

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CURRENT APPOINTMENT

Deputy Dean (Student Affairs), Faculty of Mechanical Engineering
Member, University Graduate Employability Engagement Taskforce (University appointment)
Editorial Board, Jurnal Teknologi Special Issue UTM
Reviewer, Jurnal Teknologi UTM

OBJECTIVES

1. To serve the university as a lecturer and to lead and manage teams or sub-societies, present or in the future; in order to satisfy multi stake-holders and for self-satisfaction.
2. To keep upgrading career and personal development by attending courses, workshops, trainings, conducting consultation work and involving with social work.
3. To explore and develop expertise in the area of impact mechanics, energy absorption and computer simulation.

EDUCATION

PhD (Impact Mechanics of Advanced Material), Swinburne University of Technology, Melbourne, AUSTRALIA Thesis Title: "Dynamic Response of Aluminium Honeycomb Sandwich Panels upon Impact of Foam Projectile".	2015
M.Sc. in Impact and Explosion Engineering University of Manchester Institute of Science and Technology (U.M.I.S.T) Manchester, UK. Thesis Title: "A Study of Lamina Properties that Promoting Auxetic Behaviour in the Out-of-plane Direction of a composite laminate".	2004
B.Sc. in Mechanical Engineering Clarkson University New York, USA	1999
American Associate Diploma in Aeronautical Engineering MARA Community College, Pahang, Malaysia	1997

PROFESIONAL MEMBERSHIP

Board of Engineer Malaysia, Member – JS 78236

AREA OF SPECIALISATION

Mechanics of Impact, Strength of Materials, Mechanical Design, Auxetic behaviour of Composite. FEA analysis using LS-DYNA, High Strain Rate Loading.

RESEARCH INTEREST

- Promoting auxetic behaviour in material to increase impact energy absorption capacity (M.Sc Thesis).
- Dynamic behaviour of monolithic plate and composite structure upon impact of deformable projectile. (PhD Thesis)
- Design of cladding structure to prevent damage upon blast loading.
- Explicit analysis of material response upon high strain rate loading using LS-Dyna software

WORKING EXPERIENCE

- Oct 1999 – Dec 2001, **IBM Corporation Milwaukee, WI, USA** - (Technical Customer Information Specialist).
- Jan 2002 – May 2002, **IME Technology Sdn. Bhd. Petaling Jaya, Selangor** - (Technical and Sales Engineer) for CATIA and Solidworks 3D CAD software.
- May 2002 – current, **Universiti Teknologi MARA, Shah Alam Selangor** - (Lecturer)

CONSULTATION WORK

- High Strain Rate Consultation, Universiti Pertahanan Nasional Malaysia (UPNM), Value RM 10,000.00
- Finite Element Simulation of Axial Crushing of Cylindrical Tube, Universiti Pertahanan Nasional Malaysia (UPNM), Value RM 4,000.00

RESEARCH WORK

- Finite Element Modelling of Un-cemented Hip Stem Primary Fixation: The Effect of Bone Visco-Elastic Properties to the Interference Fit.
Grant : Lestari RM 20,000.00
Leader : Dr. Mohd Azman Yahaya
Member : Prof. Madya. Dr. Solehuddin Shuib

- The Design and Development Of Turbojet Combustion Equipped With Turbulence Chamber As Thrust Booster. (Completed)

Short Term Grant (BRC Grant) : RM 26,500.00

Leader : Nik Rosli Abdullah

Member : 1. Assoc. Prof. Dr Rahim Atan
2. Mohd Azman Bin Yahaya

INNOVATION

- UiTM, Melaka, RIID (International), 2013, 2 Silver Medal and 1 Bronze Medal.

POST-GRADUATE STUDENTS

- EM 750, M.Sc, Norkamal Bin Jaafar 2013264938, Machinability of Titanium Alloy
- EM 750, M.Sc, Noor Aniza Binti Norrdin, 2013823106, Three Dimensional Cutting Force and Tool Deflection in Micro End Milling

SELECTED CURRENT PUBLICATIONS

- D Ruan, **MA Yahaya**, and F Zhu, An experimental study on a novel cladding system with aluminium honeycomb core. *Advanced Materials Research* 2011. 261-263: p. 770-774.
- **Mohd A Yahaya**, Dong Ruan, Guoxing Lu. Mechanical response of sandwich panels under foam projectile impact. *Proceedings of the Third International Symposium on Plasticity and Impact (ISPI 2011)*. Sichuan University Press, 2011. P.107-114.
- **MA Yahaya**, D Ruan and G Lu. Experimental study of sandwich panels subjected to foam projectile impact. *Key Engineering Materials*, 2013; 535-536: 501-504.
- **MA Yahaya**, D Ruan, G Lu and MS Dargusch. Response of aluminium honeycomb sandwich panels subjected to foam projectile – an experimental study. *International Journal of Impact Engineering*.
- **MA Yahaya**, D Ruan, G Lu, MS Dargusch and TX Yu. Selection of densification strain to predict dynamic crushing stress at high impact velocity of ALPORAS aluminium foam. *Key Engineering Materials* in March 2014.
- JB Saedon, N Jaafar, **MA Yahaya**, NH Saad, MS Kasim, Multi-objective Optimization of Titanium Alloy through Orthogonal Array and Grey Relational Analysis in WEDM *Procedia Technology* 15, 833-841, 2014
- JB Saedon, N Jaafar, NHM Nor, **MA Yahaya**, H Husain, MULTI-OBJECTIVE OPTIMIZATION IN WIRE-ELECTRICAL DISCHARGE MACHINING (WEDM) OF TITANIUM ALLOY *Jurnal Teknologi* 76 (6), 2015
- JB Saedon, NA Norrdin, **MA Yahaya**, NH Mohamad Nor, M Salih, Influence of Depth of Cut on Contact Phenomenon in Micromachining *Applied Mechanics and Materials* 660, 8-12, 2014
- JB Saedon, N Jaafar, **MA Yahaya**, NH Mohamad Nor, H Husain A study on kerf and material removal rate in wire electrical discharge machining of Ti-6Al-4V: multi-objectives optimization *Technology, Informatics, Management, Engineering, and Environment (TIME-E)*, 2014

CURRENT EMPLOYABILITY PROGRAMME

1. Koordinator Graduate Employability (2015 - 2016)

- a. SHRDC – TalentCorp Programme
 - i. Certification programme to increase FKM student employability potential by increasing their skills required by the industries.
 - ii. Organise 110 students to undergo the training conducted by Selangor Human Resource Development Corporation (SHRDC) during semester break.
 - iii. This programme is funded by TalentCorp.
- b. FKM English Fundamental Programme
 - i. English enhancement programme designed to help FKM students improving their technical English proficiency.
 - ii. Recruit 10 final year TESL students to train 50 selected FKM students from semester 1 and 3 in technical English writing and speaking intensively.
- c. UiTM – NIOSH Programme
 - i. Certification programme to increase student employability potential by joining courses offered by National Institute of Occupational Safety and Health (NIOSH).
 - ii. Special fee for UiTM students has been approved by NIOSH and financial assistant available to students.
- d. 1Asian Entrepreneurship Summit 2015 (Kuala Lumpur)
 - i. Manage to get 50 complimentary passes for FKM students to attend the programme.
 - ii. An Asian level programme to increase students' entrepreneurship enthusiasm and create networking in Asian region.

STRENGTH

- Excellence in teaching and learning.
- Academic leadership and ability to motivate others.
- Decision making skills (ability to understand argument and work collaboratively to reach a decision).
- Ability to relate to students and staff.
- Fast learner, creative and idealistic.
- Enjoy taking on leadership roles and decision making in various capacities.
- Dynamic and active in working and goal oriented.

COMPUTER SIMULATION SKILL

- LS-Dyna
- SolidWorks
- LS-Prepost
- Abacus
- AutoCad
- MS Project
- CATIA