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<http://scholar.google.com.my/citations?user=mFSMRbcAAAAJ&hl=en>

## Academic Qualification

1. 2013 Doctor of Engineering (Powder Metallurgy)  
Kyushu University, Japan
2. 2008 Master of Engineering (Advanced Manufacturing Technology)  
Universiti Teknologi Malaysia, Malaysia
3. 2004 Bachelor of Mechanical Engineering & Manufacturing Systems  
Universiti Malaysia Sarawak, Malaysia

## Brief Profile

PhD in Powder Metallurgy (MIM). Ext. 6339 - Senior Lecturer at Faculty of Mechanical Engineering, Universiti Malaysia Pahang. He is very much passionate to powder metal related studies. Harun has spent plenty of time to systematically study an optimizing the material alloying performances by minimizing the pore and strengthened the matrix structures through utilization of metal injection molding (MIM) process. His recent focus is the synergistic effects of biodegradable materials and processing for biomedical components and heat management part in sustainable machining.

## Working Experiences / Appointment

1. 2013 – present Lecturer – Universiti Malaysia Pahang (UMP), Malaysia
2. 2010 – 2013 Researcher/Doctoral Student – Kyushu University, Japan
3. 2006 – 2010 Researcher – UMP, Malaysia
4. 2005 – 2006 Training Engineer – KKTM Balik Pulau, Malaysia
5. 2004 – 2005 Industrial Engineer – PCA Technology (M) Sdn. Bhd, Singapore/Malaysia

## Expert Area

1. Powder Metallurgy
2. Material Characterization
3. Advanced Materials

## Research Interest

1. Net shape forming of high performance sintered materials through metal injection molding process.
2. Development of Cellular metal structures for heat sink applications in sustainable machining by Selective Laser Melting.
3. Characterization of biomedical degradable materials through Metal Injection Molding process.
4. Parametric studies on conformal cooling channel of the mold.

## Research Project / Grant

1. **Development of Titanium Manganese/Magnesium Alloys Foam for Biomedical Applications by Metal Injection Molding Process.** [Jan 2014 – April 2016], RDU140354, RM 45,500.
2. **Development of Cellular-Structured Aluminum Heat Sink for Sustainable Machining.** [April 2014 – Sept 2017], FRGS-1-32913, RM 240,000.
3. **Innovative Hot Press Forming (HPF) die by Additive Manufacturing.** [May 2014 – April 2016], 03-01-16-SF0102, RM 300,000.
4. **Experimental & Numerical Studies on Superhigh Strengthening Sintered Low Alloy Steels Fabricated by Metal Injection Molding.** [Oct 2010 – Sept 2013], MEXT100403, RM 550,000.

## Professional Qualification / Membership / Affiliation / Experience

1. CEO, Manufacturing Focus Group, Universiti Malaysia Pahang. (2014 – Present)
2. Member of American Powder Metallurgy Institute (APMI International) (No. 45147)
3. Member of Japan Society of Powder and Powder Metallurgy (No. 192090)
4. Member of Malaysia Powder Metallurgy & Particulate Materials Association (No.0015)
5. Graduate Engineer, Board of Engineer, Malaysia (BEM No. 51141A)
6. Member, Society of Manufacturing Engineers, (SME No. 14167200)
7. Member, Institution of Engineers Malaysia (IEM No. 380330)

## Teaching Experience

### Graduate Programme

MKM 1233 Advanced Manufacturing Processes

### Undergraduate Programme

BMM 3643 Manufacturing Processes  
BMM 4843 Plastic Injection Technology

## Post Graduate Supervision

### Master of Science (Mechanical Engineering)

Title: Development of Titanium Manganese/Magnesium Alloys Foam for Biomedical Applications by Metal Injection Molding Process.

Student: Mr. Zahrul Adnan Mat Taib, B. Eng.

Duration: Jun 2014 – May 2016

## Degree / Final Year Supervision

### 2014

1. Development of Cellular-Structured Aluminum Heat Sink for Sustainable Machining.
2. Realization of a 316L Stainless Steel Craniofacial Implant with a Gradient in Porosity by Metal Injection Molding.

3. Microstructure and Mechanical Properties of 316L Stainless Steel by Metal Injection Molding.
4. Investigation of Heat Transfer performances of Aluminum Cellular Structures for Cutting Tools.
5. Evaluation of Light-Weight AlSi10Mg Cellular Lattice Structure by Selective Laser Melting.
6. Microstructure and Mechanical Properties of Low Alloy Steel foams Produced by Metal Injection Molding.

## List of Publications

1. Wan Sharuzi Wan HARUN, Toshiko OSADA, Hyungoo KANG, Fujio TSUMORI, Hideshi MIURA, "Effect of MIM Processing Parameters on the Properties of 440C Stainless Steel", J. Jpn. Soc. Powder Powder Metallurgy, 59, 5, 264-271, 2012.05.
2. Wan Sharuzi Wan HARUN, Toshiko OSADA, Hyungoo KANG, Fujio TSUMORI, Hideshi MIURA, "Investigation of Fine Heterogeneous Microstructure on the Mechanical Properties of MIM Fe-Ni Alloy Steels", J. Jpn. Soc. Powder Powder Metallurgy, 59,12, 677-684, 2012.12.
3. W.S.W. Harun, S. Sharif, M. H. Idris and K. Kadirgama, "Characteristic studies of collapsibility of ABS patterns produced from FDM for investment casting", Material Research Innovation, Vol.3, No.3, pp. 340-343
4. W.S.W. Harun, T. Osada, Y. Xu, F. Tsumori, H. Miura, "Fine Heterogeneous Microstructure and Mechanical Properties of MIM Fe-Ni Alloy Steels", Proceedings of 2013 International Conference on Powder Metallurgy & Particulate Materials, 40, 2013.06.
5. W.S.W. Harun, H. Miura, T. Osada, Y. Xu, F. Tsumori, "Numerical Analysis for Heterogeneous Microstructure of Fe-Ni Low Alloy Steels by Metal Injection Molding", Proceedings of International Conference on Materials Processing Technology 2013, 225-229, 2013.06.
6. W.S.W. Harun, T. Osada, H. G. Kang, F. Tsumori, H. Miura, "Evaluation of Heterogeneous Microstructure for Ultrahigh Strengthening MIM Sintered Low Alloy Steels", Proceedings of the 2012 Powder Metallurgy World Congress & Exhibition,16B-T5-21,2013.02.