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**Associate Professor Dr. KHAIRUR RIJAL JAMALUDIN**  
**Ph.D, UKMalaysia; M.Sc. in Advanced Mech. Eng. (Fluid Dynamics), Warwick, UK;**  
**B. Eng. (Mechanical), UTMalaysia; Grad. (IEM)**

UTM Razak School in Engineering & Advanced Technology  
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Date of Birth: 4th October 1973

**Field of expertise:**

Materials Processing:

Metal Injection Molding, Powder Metallurgy and Particulate Materials

Quality & Sustainability:

Robust Engineering (Taguchi Method & Mahalanobis Taguchi System), Toyota  
Production System (TPS), Remanufacturing

**Academic Qualification:**

- i) Doctor of Philosophy (Materials Processing – Powder Metallurgy: MIM)  
UKMalaysia – (2009) – PhD Thesis: Influence of SS316L Powder Particle Size  
and Shape on Metal Injection Molding Parameters Using Design of Experiment
- ii) MSc. in Advanced Mechanical Engineering (Fluid Dynamics),  
University of Warwick,  
United Kingdom. - (1998) - MSc Dissertation: Flow Behind Cubes and  
Hemisphere
- iii) B Eng. (Mechanical Engineering),  
Universiti Teknologi Malaysia, (1996) – B Eng Dissertation: Design and  
Fabricate a Suspension System for  
Racing Car

**Memberships:**

- i. Graduate Member Board of Engineers, Malaysia
- ii. Graduate Member Institution of Engineers Malaysia

- iii. Member of American Powder Metal Institute
- iv. Committee Member of Malaysia Powder Metallurgy & Particulate Materials Association
- v. Quality Engineering Society, Japan

**Awards :**

- i) Excellent Taguchi Method Case Study Award: **Dynamic Response Optimization for Cemented Carbide Injection Molding** at 1<sup>st</sup> International Conference on Robust Quality Engineering, Kuala Lumpur (25 April 2013). Panel of Assessor: Shin Taguchi from American Supplier Institute and Prof Dr Masayoshi Koike from National Metrology Institute, Japan/ Quality Engineering Society, Japan
- ii) Excellent Paper: **Ball Milling of WC-Co Powder as Injection Molding Feedstock** at 2011 International Conference on Mechanical and Aerospace Engineering, Bangkok, Thailand.
- iii) Best Paper Award for paper entitled: **Multiple Performance Optimization for the Best Metal Injection Molding (MIM) Green Compacts** at International Conference on Plant Equipment and Reliability, a Conference of World Engineering, Science & Technology Congress 2010.
- iv) Excellent Service Award 2009
- v) SLAB scholarship for PhD at Universiti Kebangsaan Malaysia, 2006- 2009
- vi) Excellent Service Award 2003
- vii) UTM/JPA scholarship for Master studies in Universiti of Warwick, UK (1997-1998)
- viii) MARA scholarship for undergraduate study (1991-1996)

**International Recognition :**

- i) Invitation to Speak by Asia Pacific Economic Cooperation (APEC) at APEC Market Access Group Workshop; Academic and Scientific Perspectives on Remanufacturing, Surabaya, Indonesia - April 11, 2013. The invitation was from United States Agency, International Development, and United State of America Government.
- ii) Appointed as "Recognised Supervisor for PhD candidate in Brunel University, London. Student name: Fun Wee Chen. Thesis title: Early Type IV creep damage detection with advanced ultrasonic based NDT. Appointment from 1<sup>st</sup> November 2012 – Nov 2015
- iii) Invited Speaker at Istanbul Ticaret University, Turkiye. Topic: Powder Metallurgy Research in Malaysia. Date: 20<sup>th</sup> January 2012.
- iv) Invited Speaker at Bartin University, Turkiye. Topic: Sustainable Binder development in Metal Injection Molding Research. Date: 18<sup>th</sup> January 2012.
- v) Appointed as Journal Regional Editor for the following journals 1) Journal of Applied Science 2) Trend in Applied Sciences Research 3) Asian Journal of Materials Science 4) Singapore Journal of Scientific Research.

**Journal Editorial Board :**

- i) Editor of IEM Journal from 2005-2012

- ii) Journal Teknologi Special Issue. 2012
- iii) Regional Editor: 1) Journal of Applied Science 2) Trend in Applied Sciences Research 3) Asian Journal of Materials Science 4) Singapore Journal of Scientific Research from 2010- present

**Career history:**

- a. 27 February 2013: Associate Professor (DS54)  
UTM Razak School of Eng & Adv.  
Technology, Universiti Teknologi Malaysia  
Kuala Lumpur
- b. Nov 2012 – Present: Academic Manager (Graduate Studies)  
UTM Razak School of Eng & Adv.  
Technology,  
Universiti Teknologi Malaysia
- c. March 2010 – Nov 2012: Program Manager
  - 1. Executive Master of Occupational  
Safety & Health Management
  - 2. Engineering Doctorate
- d. 14 Jan 2010 – 26 Feb 2013: Senior Lecturer (DS52)  
  
UTM Razak School of Eng & Adv.  
Technology,  
Universiti Teknologi Malaysia Kuala  
Lumpur
- e. 2 Dec. 1998 – 13 Jan 2010: Lecturer (DS45)  
  
Dept of Mechanical Eng,  
College of Science Technology,  
Universiti Teknologi Malaysia  
Int. Campus, Kuala Lumpur
- f. Mac 1999 – Aug 2002: Head of Department  
  
Program for Diploma Studies,  
Universiti Teknologi Malaysia  
Int. Campus, Kuala Lumpur
- g. Feb 1997 – 1 Dec 1998: Tutor (DA 41)  
  
Program for Diploma Studies,  
Universiti Teknologi Malaysia  
Int. Campus, Kuala Lumpur
- h. May 1996 – Feb 1997: Engineer  
  
Engine and Transmission,  
Proton Berhad

**ACADEMIC ACTIVITIES**

### Teaching:

- i) **Diploma level**  
Manufacturing Processes, Fluid Power, Fluid Mechanics 1, Fluid Mechanics 2, Product Development, Mechanic of Materials 1
- ii) **Under Graduate Level**  
Manufacturing Processes, Fluid Power, Fluid Mechanics 4, Heat and Mass Transfer, Vehicle Aerodynamics, Engineering Drawing, and Mechanic of Material 1
- iii) **Post Graduate Level**  
Quality Management, Quality Engineering, Research Methodology, Innovation and Technology Management

### Thesis/Disertation Supervised

**Undergraduate : 9**

**Post Graduate :**

**MSc:**

On-going:

Main: 3 candidates (EMOSHIM)

Co Supervisor: 2 students (from FKM and UTHM)

Graduated:

6 candidates (Msc EBM-Warwick)

10 candidates (EMOSHIM)

**Eng.D and Ph.D:**

On-going:

10 candidates (5 as main supervisor and 5 as co-supervisor)

Other University's students: 1 UKM; 1 Brunel U, London UK

### Thesis External Examiner

1. 24/10/2011 Farhana Mohd Foudzi. **Master of Science**, Universiti Kebangsaan Malaysia (P52470)
2. 22/12/11 Haw Pei Li. **Master of Science**, Universiti Kebangsaan Malaysia (P50234)

### Thesis Internal Examiner

1. 26/12/13 Muhamad Murrad. **Doctor of Engineering**, Universiti Teknologi Malaysia  
Title: Maintenance and Reliability of Nuri Main Rotor Gearbox in the Malaysian Armed Forces

### Other Academic Activities

- i. Cooperative Program Committee, TNC(A) office, UTM, 14/9/05
- ii. Publication Committee, CoST, UTM, 1/1/05-31/12/06
- iii. Technical Specification Committee CoST, UTM, 1/11/02-1/11/04
- iv. Expertise Marketing Committee CoST, UTM, 1/2/04-31/1/06
- v. Facilitator for Teaching Portfolio Workshop CoST, UTM, 15/7/03
- vi. Subject Coordinator for DDJ 1912, DDJ 2912, DDJ 3303, DDB 2252 and DDJ 3313 CoST, UTM
- vii. Chairman of the Laboratory Development Committee CoST, UTM, 15/12/01-14/12/03
- viii. Academic Board Member, CoST, UTM, 27/10/98-15/8/02
- ix. Facilitator for Teaching Workshop for Army Engineering Institute (IJED), 10/8/05
- x. Committee for Students Development Centre, CoST, UTM, 15/7/05 – 15/7/07
- xi. Evaluator for IJED, Kolej Negri and MARA Skills Institute (skills subjects)
- xii. Facilitator for Teaching Workshop for UTM's Collaboration Colleges
- xiii. Facilitator for Outcome Based Education for IJED 7/1/05
- xiv. Facilitator for Outcome Based Education for MARA Skills Institute and Kolej Negri 5/1/05
- xv. Facilitator for Teaching Workshop for International University College Technology Twintech and IJED 22/12/04 and 17/12/04
- xvi. Facilitator for Curriculum Development Workshop for Diploma Teknologi Mekanikal (Acuan dan Dai), 25/5/04
- xvii. Quality Visit Committee for Colobaration UTM's Programs
- xviii. Facilitator for Teaching Plan Workshop for Diploma of Technology, Kelantan 22/11/03
- xix. Coordinator for Diploma of Mechanical Technology subjects: Dip of Tech (Automotive, Military Automotive and Manufacturing)
- xx. Open Day Committee, CoST, UTM, 22/6/02
- xxi. Editorial Board of Journal of Institution of Engineers Malaysia, April 2005-April 2007
- xxii. Chairman of Bachelor of Engineering Technology (Manufacturing) Curriculum Development Committee, CoST, UTM,
- xxiii. Chairman of Diploma of Mechanical Engineering Curriculum Re-evaluation, CoST, UTM,
- xxiv. Committee for Diploma of Technology Programme Development, CoST, UTM,
- xxv. Initiate the Army Engineering Institute – UTM collaboration program and Introduced curriculum of Diploma of Mechanical Technology (Automotive-Military), Diploma of Mechanical Technology (Weaponry) and Diploma of Mechanical Technology (Electronic) for the program. I was chaired the Diploma of Mechanical Technology (Automotive-Military) curriculum development.
- xxvi. Referee for Institution of Engineers Malaysia Journal Papers 2005-2013
- xxvii. Program Manager: Engineering Doctorate; Executive Master Occupational Safety and Health Management, UTM Razak School 2009-2012

## **RESEARCH GRANT AWARDED**

### **Leader:**

**Total as leader: RM 250,820**

1. Developing Sustainable Binder for Metal Injection Molding using Recycle Materials.  
GUP: Vot: **RM50,000**
2. Characterization of Polyethylene Terephthalate (PET) Waste as Sustainable Binder for Metal Injection Molding. FRGS RMK 10 Grant: Vot **RM 90,820**
3. Determination of automotive product remanufacturability using ahp methodology.  
Institutional Research Grant: **Vot: 4B029**. UTM.J.13.01/25.10/2/1/4B029(2) **RM 50,000**

4. Multicharacteristic Optimization for Metal Injection Molding (MIM) Processing Parameter. Short Term Grant: **Vot: 77367**. UTM.01.07/25.10/2/2/77367-e(2) **RM 20,000**
5. Characterization of Newly Developed feedstock in Metal Injection Moulding Application using Tungsten Carbide with palm stearin binder system. FRGS RMK 9 grant: **Vot: 78641** FRGS/1/10/TK/UTM/03/69 **RM 40,000**
6. Overall Performance Measurement for Logistics Operation RMC **VOT: 75217**

**Researcher:**

**Total as Researcher: RM 286,900**

1. Simulation of Static and Ultrasonic Compression. Short Term Grant **RM 20,000**
2. Using larger flaw sizes as acceptable criteria for aerospace applications. Research University Grant (GUP): **VOT Q.K130000.7140.03J93 RM 39,900**
3. Design of Ultrasonic Horn for Powder Metal Compaction. Institutional Research Grant: **VOT: 4B028 RM 50,000**
4. A Web Based Manufacturing Performance Evaluation Tool for Malaysian Automotive Industry. Research University Grant (GUP): **RM 47,000**
5. Design of a Novel Magnetorheological (Mr) Damper Using Combination Of Squeeze And Shear Modes. Research University Grant (GUP): **RM 130,000**
6. Particle size and particle shape distribution on Metal Injection Molding processing parameter. FRGS grant: UKM-KK-02-FRGS0013-2006

**TOTAL RESEARCH GRANT AWARDED: RM 537,720**

**PUBLICATIONS**

**TEXT BOOK**

1. Khairur Rijal Jamaludin, **Reka Bentuk Sistem Kuasa Bendalir**, Penerbit UTM, 2004

**TEACHING MODULES**

1. Khairur Rijal Jamaludin, **Reka Bentuk Sistem Kuasa Bendalir**, Cetakan Awal PPD, UTM, 2002
2. Khairur Rijal Jamaludin, **Kuasa Bendalir**, PPD, UTM, 1999

**CHAPTER IN BOOKS**

1. Khairur Rijal Jamaludin, Norhamidi Muhamad, Sri Yulis M. Amin, Mohd Nizam Ab. Rahman, Muhammad Hussain Ismail, Murtadhahadi. 2008. **Injection Molding Parameter Optimization Using Taguchi Method For Highest Green Strength For Bimodal Powder Mixture with SS316L in PEG, and PMMA**. Advances in Powder Metallurgy & Particulate Materials. 1: 186-194. ISBN: 0-9793488-9-7
2. Khairur Rijal Jamaludin. 2008. **Powder Injection Moulding, Its Outstanding Features And Development**. Advances in Mechanical, Manufacturing and Materials Engineering. Page: 62-75. ISBN 978-983-52-0563-7

3. Khairur Rijal Jamaludin, Norhamidi Muhamad & Sri Yulis M. Amin. 2008. **Metal Injection Moulding (MIM) Feedstock Preparation with Dry and Wet Mixing: A Rheological Behavior Investigation.** Advances in Mechanical, Manufacturing and Materials Engineering. Page: 76-93. ISBN 978-983-52-0563-7
4. Khairur Rijal Jamaludin, Norhamidi Muhamad, Mohd Nizam Ab. Rahman, Sri Yulis M. Amin, Sufizar Ahmad, Mohd Halim Irwan Ibrahim, Murtadhahadi and Nor Hafiez Mohamad Nor &. 2008. **An Influence of the SS316L Powder Particle Shape to the Densification of Metal Injection Moulding (MIM) Compact.** Advances in Mechanical, Manufacturing and Materials Engineering. Page: 94-104. ISBN 978-983-52-0563-7

#### RESEARCH MONOGRAPH

1. **Overall Performance Measurement for Logistics Operation**, 2008. Research Management Centre, UTM

#### CITATION INDEXED JOURNALS

Impact factor articles: 7

Web of Science: 13

Scopus: 34

Total Citation Indexed Journal: 47

#### Web of Science with Impact Factors

1. Sri Yulis M. Amin, Norhamidi Muhamad, Khairur Rijal Jamaludin, Abdolali Fayyaz, Heng Shye Yunn. 2014. **Characterization of the Feedstock Properties of Metal Injection-molded WC-Co with Palm Stearin Binder System.** Sains Malaysiana 43(1): 123–128 (**Impact Factor: 0.408**)
2. Nor, N. H. Mohamad; Ismail, M. H.; Muhamad, N.; Ruzi, M.; Jamaludin, K. R. 2013. **Sintering Optimization of Ti-6Al-4V Powder Mix with Palm Stearin Based Binder Using Grey-Taguchi Method.** Advanced Science Letters. 19 (1): 260-263: Indexed in ISI and Scopus. (**Impact Factor: 1.253**)
3. Khairur Rijal Jamaludin, Norhamidi Muhamad, Sufizar Ahmad, Mohd Halim Irwan Ibrahim, Nor Hafiez Mohd Nor, Yusof Daud. 2011. **Injection Molding temperature and powder loading influence to the Metal Injection Molding green compact.** Scientific Research & Essays. Vol. 6(21), pp. 4532-4538: Indexed in ISI and Scopus. (**Impact Factor 2005-2010: 0.518**)

4. Mohd H.I. Ibrahim, Norhamidi Muhamad, Abu B. Sulong, Khairur R. Jamaludin, Nor H.M. Nor & Sufizar Ahmad. 2011. **Optimization of Micro Metal Injection Molding with Multiple Performance Characteristics using Grey Relational Grade**. Chiang Mai J. Sci. 2011; 38(2): 231-241: Indexed in **ISI and Scopus**. **(Impact Factor 2010: 0.473)**
5. S. Ahmad, N. Muhamad, A. Muchtar, J. Sahari, **K.R. Jamaludin**, M.H.I. Ibrahim & N.H. Mohamad Nor. 2010. **Pencirian Titanium Berbusa yang dihasilkan pada suhu pensinteran yang berbeza menggunakan kaedah buburan**, Sains Malaysiana, Vol. 39 (1): 77-82 Indexed in **Web of Science, SCOPUS**. **(Impact Factor 2010: 0.268)**
6. **Khairur Rijal Jamaludin**, Norhamidi Muhamad, Mohd Nizam Ab. Rahman, Sri Yulis M. Amin, Sufizar Ahmad, Mohd Halim Irwan Ibrahim, Murtadhahadi. 2009. **Kajian Prestasi Penyahikatan Larutan Dengan Menggunakan Kaedah Rekabentuk Eksperimen**, Sains Malaysiana, Vol. 38 (6): 883-888: Indexed in **Web of Science, SCOPUS**. **(Impact Factor 2010: 0.268)**
7. **Khairur Rijal Jamaludin**, Norhamidi Muhamad, Mohd Nizam Ab. Rahman, Sufizar Ahmad, Mohd Halim Irwan Ibrahim. 2009. **Optimizing The Injection Parameter Of Water Atomised SS316L Powder With Design Of Experiment Method For The Best Sintered Density**, Chiang Mai Journal of Science, 36(3):349-358. Indexed in **Web of Science, Scopus, SciSearch, SciFinder Scholar** **(Impact Factor 2010: 0.473)**

#### Web of Science without Impact Factors

8. Sufizar Ahmad, Norhamidi Muhamad, Andanastuti Muchar, Jaafar Sahari, **K.R. Jamaludin**, M.H.I. Ibrahim and N.H. Mohamad Nor. 2010. **Optimisation of Processing Parameters of Titanium Foams Using Taguchi Method for Compressive Strength**. Key Engineering Materials Vols. 447-448 (2010) pp 671-675. Indexed in **Web of Science**.
9. **Khairur Rijal Jamaludin**, Norhamidi Muhamad, M.N.A. Rahman, S. Ahmad, M.H.I. Ibrahim, N.H.M.Nor & M.Y.M. Daud. 2010. **Application of the Grey-Taguchi Method to the Optimization of Metal Injection Molding (MIM) Process**. Key Engineering Materials. Vol. 443, pp 63-68. Indexed in **Web of Science**.
10. Mohd Halim Irwan Ibrahim, Norhamidi Muhamad, Abu Bakar Sulong, **Khairur Rijal Jamaludin**, Nor Hafiez Mohamad Nor, Sufizar Ahmad, Mohd Ruzi Harun & Hafizawati Zakaria. 2010. **Parameter Optimization towards Highest Micro MIM**



**Density by Using Taguchi Method.** Key Engineering Materials. Vol. 443 (2010) pp 705-710. Indexed in **Web of Science**.

11. Nor Hafiez Mohamad Nor, Norhamidi Muhamad, Sufizar Ahmad, Mohd Halim Irwan Ibrahim, Mohd Ruzi Harun & **Khairur Rijal Jamaludin**. 2010. **Parameter Optimization of Injection Molding Ti-6Al-4V Powder and Palm Stearin Binder System for Highest Green Density Using Taguchi Method.** Key Engineering Materials Vol. 443 pp 69-74. Indexed in **Web of Science**.
12. **Khairur Rijal Jamaludin**, Norhamidi Muhamad, Mohd Nizam Ab. Rahman, Sri Yulis M. Amin, Sufizar Ahmad, Mohd Halim Irwan Ibrahim, Murtadhahadi, Nor Hafiez Mohamad Nor. 2009. **Moulding Parameter Optimisation for the Best Sintered Density**, Proceeding of the World Congress of Engineering, Imperial College, UK, Vols 1 and 2 Book Series: Lecture Notes in Engineering and Computer Science Pages: 590-594: Indexed in **Web of Science**
13. N. Khamis, M. N. Ab Rahman, **K.R. Jamaludin**, A.R. Ismail, J.A. Ghani, and R. Zulkifli, **Development of 5S Practice Checklist for Manufacturing Industry**, Proceeding of the World Congress of Engineering, Imperial College, UK, Vols 1 and 2 Book Series: Lecture Notes in Engineering and Computer Science Pages: 545-549: Indexed in **Web of Science**

## Scopus

1. Abu M. Y., Jamaludin K. R., Abdul Sani A. S. 2014. **Current Situation in Cleaning Process of Remanufacturing in Malaysia: A Case Study.** Advanced Materials Research Vol. 845, pp 904-914
2. Abu M. Y., Jamaludin K. R. 2014. **Application of Mahalanobis-Taguchi System on Crankshaft as Remanufacturing Automotive Part: A Case Study.** Advanced Materials Research Vol. 845, pp 883-888
3. Abu M.Y., Jamaludin K.R., Abdul Sani A.S., Abdullah T. A., Wahab D. A. 2014. **An Application of Failure Mode and Effect Analysis to Cylinder Head during Dismantle of Remanufacturing Process: A Case Study.** Advanced Materials Research Vol. 845, pp 841-851
4. Abu M. Y., Jamaludin K. R., Ramlie F. 2014. **Pattern Recognition Using Mahalanobis-Taguchi System on Connecting Rod through Remanufacturing Process: A Case Study.** Advanced Materials Research Vol. 845, pp 584-589
5. Noor F. M., Zain M. I. M., Jamaludin K. R., Hussin R., Kamdi Z., Ismail A., Ahmad S., Taib H. 2014. **Potassium Bromide as Space Holder for Titanium Foam Preparation.** Applied Mechanics and Materials Vols. 465-466, pp 922-926
6. Mad Rosip N. I., Ahmad S., Arpawi N. L., Jamaluddin K. R., Mat Noor F. 2014. **The Effect of Sintering Temperature and Composition for Density and Porosity of SS316L Foam.** Applied Mechanics and Materials Vols. 465-466, pp 988-992
7. Sri Yulis M. Amin, Norhamidi Muhamad, Khairur Rijal Jamaludin. 2014. **Rheological Properties Analysis of WC-Co Injection Feedstock.** Materials Science Forum Vols. 773-774, pp 880-886

8. Amin, S.Y.M., Muhamad, N., Jamaludin, K.R. 2013. **Optimization of injection molding parameters for WC-Co feedstocks.** Jurnal Teknologi (Sciences and Engineering) 63 (1) , pp. 51-54 Indexed in **Scopus**
9. Nor, N.H.M., Ismail, M.H., Muhamad, N., Ruzi, M., Jamaludin, K.R. 2013. **Sintering optimization of Ti-6Al-4V powder mix with palm stearin based binder using grey-Taguchi method.** Advanced Science Letters 19 (1) , pp. 260-263 Indexed in **Scopus**
10. Nasuha Lee Abdullah, Khairur Rijal Jamaludin, Hayati Habibah Abdul Talib. 2012. **Challenges of Quality Management: A Case Study at Malaysian Electronics Manufacturing Services Company.** Jurnal Teknologi. 59: 29–32 Indexed in **Scopus**
11. Yusof Daud, Khairur Rijal Jamaludin, Jeyanthi Vengatta Ramanr. 2012. **Human Factor Issue in Quality Management.** Jurnal Teknologi. 59: 33–35 Indexed in **Scopus**
12. Khairur Rijal Jamaludin, Mohd Shahrman Adenan, Mohd Yusof Md Daud, Norazmein Abd Raman.2012. **Delaminating Control on Drilling the Medium Density Fiber Board with Robust Optimization.** Jurnal Teknologi. 59: 95–98 Indexed in **Scopus**
13. Mohd Ruzi Harun, Norhamidi Muhamad, Abu Bakar Sulong, Nor Hafiez Mohamad Nor, Khairur Rijal Jamaludin, Mohd HalimIrwan Ibrahim. 2012. **Solvent Debinding Process for ZK60 Magnesium Alloy MIM Compact.** Jurnal Teknologi. 59: 159–168: Indexed in **Scopus**
14. Yusof Daud, Margaret Lucas, Khairur Rijal Jamaludin. 2012. **Finite Element Modelling in Ultrasonic Sheet Metal Forming.** Advanced Materials Research Vol. 445: 3-8: Indexed in **Scopus**
15. Khairur Rijal Jamaludin, Norhamidi Muhamad, Sufizar Ahmad, Mohd Halim Irwan Ibrahim, Nor Hafiez Mohd Nor, Mohd Ruzi Bin Harun, Mohd Yusof Md Daud. 2012. **Optimizing the Sintering Parameter of Metal Injection Molding Compact Using Robust Engineering Technique.** Advanced Materials Research Vol. 445: 357-361: Indexed in **Scopus**
16. Sri Yulis M. Amin, Norhamidi Muhamad, Khairur Rijal Jamaludin, Abdolali Fayyaz & Heng Shye Yunn. 2012. **Ball Milling OF WC-Co Powder as Injection Molding Feedstock.** Applied Mechanics and Materials Vols. 110-116: 1425-1430: Indexed in **Scopus**
17. M.R. Harun, N. Muhamad, A.B. Sulong, N.H. Mohamad Nor, K.R. Jamaludin. 2012. **Metal Injection Moulding of ZK60 Magnesium Alloy Powder Using Palm Stearin Based Binder System.** Advanced Materials Research Vol. 445 (2012) pp 374-379: Indexed in **Scopus**

18. Nor, N.H.M., Muhamad, N., Ibrahim, M.H.I., Ruzi, M., Jamaludin, K.R. 2011. **Optimization of injection molding parameter of Ti-6AL-4V powder mix with palm stearin and polyethylene for the highest green strength by using Taguchi method.** International Journal of Mechanical and Materials Engineering 6 (1), pp. 126-132: Indexed in **Scopus**
  
19. Y. Daud, M Lucas & KR Jamaludin. 2011. **Verification of Interface Friction of Radial Ultrasonic Compression Using FE Simulation.** Journal of Applied Sciences, 11(9): 1600-1605: Indexed in **Scopus**
  
20. KR Jamaludin, N Muhamad, MN Ab Rahman, S Ahmad, MHI Ibrahim, NHM Nor, MR Harun, MYM Daud. 2011. **Multiple Performance Optimization for the Best Metal Injection Moulding Green Compact.** Journal of Applied Sciences, 11(9): 1663-1667: Indexed in **Scopus**
  
21. N.H. Mohamad Nor, N Muhamad, AK Arifin, M Ruzi, KR Jamaludin, A Sufizar. 2011. **Injection Molding Parameter Optimization of Titanium Alloy Powder Mix with Palm Stearin and Polyethylene for Multiple Performance Using Grey Relational Analysis.** Journal of Applied Sciences, 11(10): 1833-8838: Indexed in **Scopus**
  
22. MR Harun, N Muhamad, AB Sulong, NH Mohamad Nor, KR Jamaludin. 2011. **The Development of Metal Injection Moulding for ZK60 Magnesium Alloy using Palm Stearin Based Binder System.** Advanced Materials Research. 230-232: 1199-1203: Indexed in **Scopus**
  
23. Mohd Halim Irwan Ibrahim, Norhamidi Muhamad, Abu Bakar Sulong, Khairur Rijal Jamaludin, Nor Hafiez Mohamad Nor & Sufizar Ahmad. 2011. **Optimization of Micro Metal Injection Molding SS316L for the highest green strength by using Taguchi Method.** Advanced Materials Research. 264-265: 135-140: Indexed in **Scopus**
  
24. Khairur Rijal Jamaludin, Norhamidi Muhamad, Mohd Halim Irwan Ibrahim & Nor Hafiez Mohamad Nor. 2011. **Orthogonal Array Technique for Optimizing the Sintering Parameter of the Metal Injection Molding (MIM) Compact: Best Flexure Strength.** Advanced Materials Research. 264-265: 290-294: Indexed in **Scopus**
  
25. Khairur Rijal Jamaludin, Norhamidi Muhamad, Hooman Abolhasani, Murtadhahadi & Mohd Nizam Ab. Rahman. 2011. **An Influence of a binder system to the rheological behavior of the SS316L Metal Injection Molding (MIM) Feedstock.** Advanced Materials Research. 264-265: 554-558: Indexed in **Scopus**
  
26. NH Mohamad Nor, N Muhamad, KR Jamaludin, S Ahmad & MHI Ibrahim. 2011. **Characterisation of Titanium Alloy feedstock for Metal Injection Moulding Using Palm Stearin Bider System.** Advanced Materials Research. 264-265: 586-591: Indexed in **Scopus**

27. S. Ahmad, N. Muhamad, A. Muchtar, J. Sahari, KR Jamaludin, MHI Ibrahim & NH Mohamad Nor. 2011. **Taguchi Method for the Determination of Optimised Sintering Parameters of Titanium Alloy Foams**. *Advanced Materials Research*. 264-265: 1731-1736: Indexed in **Scopus**
28. Ibrahim, M.H.I., Muhamad, N., Sulong, A.B., Nor, N.H.M., Jamaludin, K.R., Harun, M.R., Murtadhahadi. 2010. **Optimization of micro metal injection molding by using grey relational grade**. *AIP Conference Proceedings* 1315, pp. 713-718: Indexed in **SCOPUS**.
29. Nor, N.H.M., Muhamad, N., Ruzi, M., Ahmad, S., Ibrahim, M.H.I., Jamaludin, K.R. 2010. **Injection molding parameter optimization of Ti-6Al-V powder mix with palm stearin and polyethylene for highest green strength using Taguchi method**. *AIP Conference Proceedings* 1315, pp. 689-694: Indexed in **SCOPUS**.
30. S. Ahmad, N. Muhamad, A. Muchtar, J. Sahari, M.H.I. Ibrahim, K.R. Jamaludin & N.H.M. Nor. 2010. **Development And Characterization of Titanium Alloy Foams**. *International Journal of Mechanical and Materials Engineering (IJMME)*, Vol. 5 (2010), No.2, 244-250 ISSN: 1823-0334: Indexed in **SCOPUS**.
31. M.H.I. Ibrahim, N. Muhamad, A.B. Sulong, K.R. Jamaludin, S. Ahmad & N.H.M. Nor. 2010. **Optimization of Micro Metal Injection Molding For Highest Green Strength by Using Taguchi Method**. *International Journal of Mechanical and Materials Engineering (IJMME)*, Vol. 5 (2010), No.2, 282-289 ISSN: 1823-0334: Indexed in **SCOPUS**.
32. K.R. Jamaludin, N. Muhamad, M.N.A. Rahman, Murtadhahadi, S. Ahmad, M.H.I. Ibrahim, N.H.M. Nor. 2010. **Rheological Investigation of Water Atomized Metal Injection Molding (MIM) Feedstock for Processibility Prediction**, *Advanced Materials Research Vols. 83-86 (2010) pp 945-952*: Indexed in **Scopus, EI**.
33. Mohamad Nor, N.H., Muhamad, N., Ismail, M.H., Jamaludin, K.R., Ahmad, S., Ibrahim, M.H.I. 2009. **Flow Behaviour to Determine the Defects of the Green Part in Metal Injection Molding**, *International Journal of Mechanical and Materials Engineering, (IJMME)*, Vol. 4 (2009), No. 1, 70-75, ISSN: 1823-0334: Indexed in **SCOPUS**.
34. Jamaludin, K.R., N. Muhamad, S. Y. M. Amin, M. N. Ab. Rahman, Murtadhahadi. 2008. **Rheological behavior of SS316L gas atomised powder in bimodal**

particle size distribution in a composite binder system, International Journal of Mechanical and Materials Engineering, (IJMME), Vol. 3 (2), 108-114, ISSN: 1823-0334: Indexed in **SCOPUS**

#### **NON-INDEXED JOURNALS**

1. M. H. I. Ibrahim, N. Muhamad, A.B Sulong, **K. R. Jamaludin**, S. Ahmad and N. H. Mohamad Nor. 2010. **Single Performance optimization of micro metal injection molding for the highest green strength by using Taguchi method.** International Journal of Integrated Engineering Vol. 2, pp 35-43. ISSN: 1985-854x.
2. S. Ahmad , N. Muhamad, A. Muchtar, J. Sahari, **K. R. Jamaludin**, M. H. I. Ibrahim and N. H. Mohamad Nor. 2010. **Optimisation of Sintering Factors of Titanium Foams Using Taguchi Method.** International Journal of Integrated Engineering Vol. 2, pp 1-6. ISSN: 1985-854x.
3. Sri Yulis M. Amin, **Khairur Rijal Jamaludin**, Norhamidi Muhamad, Shahrir Abdullah and Mohd Nizam Ab. Rahman. 2009. **Rheological Properties of 316L Stainless Steel Feedstocks Prepared With Different Particle Sizes And Solid Loadings**, The Journal of The Institution of Engineers, Malaysia, Vol. 71, No. 2, pp 59-63, June 2009, ISSN: 0126-513X
4. Ahmad, S., Muhamad, N., Muchtar, A., Sahari, J., **Jamaludin, K.R.**, M.H.I., Ibrahim, N.H. Mohamad Nor and Mutadhahadi. 2008. **Study of titanium foam using titanium alloy (Al3Ti) by Polymeric Technique.** Journal of Applied Technology, Universiti Syiah Bandar Aceh, Indonesia (Accepted for publication – waiting for publication in 2008- backdated publication).
5. **Khairur Rijal Jamaludin**, Norhamidi Muhamad, Mohd Nizam Ab. Rahman, Sri Yulis M. Amin, Murtadhahadi. 2008. **Pengoptimuman Parameter Pengacuan Bagi Mengurangkan Kecacatan Jasad Anum Proses Pengacuan Suntikan Logam (MIM)**, The Journal of The Institution of Engineers, Malaysia, Vol. 69, No. 2, pp 40-46, June 2008, ISSN: 0126-513X
6. **Khairur Rijal Jamaludin**, Norhamidi Muhamad, Mohd Nizam Ab. Rahman, Sri Yulis M. Amin, Muhammad Hussain Ismail, Murtadhahadi. 2008. **Particle Size And Injection Temperature Effect To The Injection Molding Of SS316L Powder**, Journal of Mechanical Engineering, UiTM, Vol. 5, No. 1, pp 59-71
7. Norhamidi Muhamad, **Khairur Rijal Jamaludin**, Sri Yulis M. Amin, Mohd Nizam Ab. Rahman, Shahrir Abdullah 2008. **Pemilihan Bahan Suapan bagi Proses Pengacuan Suntikan Logam berdasarkan kepada kajian sifat Reologi**, *Jurnal Teknologi UTM*, No. 48(A) (June 2008) 19-34.
8. **Khairur Rijal Jamaludin**, Hayati @ Habibah Abdul Talib and Tan Chiaw Hooi. 2007. **An Improvement to the Performance Measurement System of the**

**Logistics Operation**, The Institution of Engineers Malaysia Journal, Volume 68, No 2, June 2007, page: 41-46. ISBN: 0126-513X

9. **Khairur Rijal Jamaludin**, Hayati @ Habibah Abd Talib, Tan Chiaw Hooi. 2007. Supply Chain and Logistics Operations Management: A Literature, Journal of Technical and Social Studies (JUTESS), Volume 6, number 1, pg no 64-77, ISSN 1675-2228
10. **Khairur Rijal Jamaludin**, Norhamidi Muhamad, Sri Yulis M. Amin, Mohd Nizam Ab. Rahman, Murtadhahadi, 2006. **Rheological Investigation Of Stainless Steel Powder In Bimodal Particle Size Distribution**, Jurnal of Applied Technology, PATRI, Universiti Syiah Bandar Aceh, Indonesia, Vol. 4 No 1, pp51-59, May 2006, ISSN 1693-2536.
11. **Khairur Rijal Jamaludin**, Hayati @ Habibah Abdul Talib, Aplikasi Teknologi Maklumat (IT) Dalam Pengurusan Organisasi: Sorotan Kajian, Journal Of Technical and Social Studies (JUTESS), Vol. 1 Bil 2/2003: Jun 2003.
12. **Khairur Rijal Jamaludin**, The Application of Ultrasound At High Temperature- A Review, Journal of Technical and Social Studies (JUTESS), Vol. 2/2002: December 2002

#### **CONFERENCE PROCEEDINGS (INTERNATIONAL & NATIONALS)**

1. **Khairur Rijal Jamaludin**, Mohd Shahrizan Adenan, Mohd Yusof Md Daud. 2011. Minimizing Delaminating On Medium Density Fiber Board By Taguchi Method. Proc. 14<sup>th</sup> International Conference on Advances in Materials & Processing Technologies, Istanbul, Turkey, 13-16 July 2011
2. Mohd Yusof Md Daud, Margaret Lucas, **Khairur Rijal Jamaludin**. 2011. Finite Element Modelling In Ultrasonic Sheet Metal Forming. Proc. 14<sup>th</sup> International Conference on Advances in Materials & Processing Technologies, Istanbul, Turkey, 13-16 July 2011
3. **Khairur Rijal Jamaludin**, Norhamidi Muhamad, Mohd Nizam Abd Rahman, Sufizar Ahmad, Mohd Halim Irwan Ibrahim, Nor Hafiez Mohd Nor, Mohd Yusof Md Daud. 2011. Optimizing The Sintering Parameter Of Metal Injection Molding Compact Using Robust Engineering Technique. Proc. 14<sup>th</sup> International Conference on Advances in Materials & Processing Technologies, Istanbul, Turkey, 13-16 July 2011
4. Mohd Ruzi Harun, Norhamidi Muhamad, Abu Bakar Sulong, Nor Hafiez Mohd Nor, **Khairur Rijal Jamaludin**. 2011. Metal Injection Moulding Of ZK60 Magnesium Alloy Powder Using Palm Stearin Based Binder System. Proc. 14<sup>th</sup> International Conference on Advances in Materials & Processing Technologies, Istanbul, Turkey, 13-16 July 2011
5. **Khairur Rijal Jamaludin**, Hayati @ Habibah Abdul Talib, Mohd Shahrizan Adenan. 2010. The 5S Implementation in the Higher Education Institution at

Selangor: A Preliminary Study. Proceeding of the 11th Asia Pacific Industrial Engineering & Management Systems (APIEMS) Conference, Malacca, Malaysia, 7-10 December 2010

6. Mohd Yusof Md Daud, **Khairur Rijal Jamaludin**, Jeyanthi Vengatta Raman. 2010. Case Study on the Human Factor Improvement on the Quality Management in a Semiconductor Industry. Proceeding of the 11th Asia Pacific Industrial Engineering & Management Systems (APIEMS) Conference, Malacca, Malaysia, 7-10 December 2010
7. N. H. Mohamad Nor, N. Muhamad, S. Ahmad, M. Ruzi, **K. R. Jamaludin**. 2010. Injection Molding Parameter Optimization Of Ti-6al-4v Powder Mix With Palm Stearin and Polyethylene for Highest Green Strength using Taguchi method. Proceeding of the Advances in Materials and Processing Technologies International Conference, Paris, France, 24-27 October 2010
8. M.H.I Ibrahim, N. Muhamad, A.B. Sulong, **K.R Jamaludin**, N.H.M Nor, S. Ahmad. 2010. Optimization Of Micro Metal Injection Molding By Using Grey Relational Grade. Proceeding of the Advances in Materials and Processing Technologies International Conference, Paris, France, 24-27 October 2010
9. Sufizar Ahmad, Norhamidi Muhamad, Adnastuti Muchtar, Jaafar Sahari, **Khairur Rijal Jamaludin**, Mohd Halim Irwan Ibrahim, Nor Hafiez Mohamad Nor, Murtadhahadi. 2010. Influence of composition and Sintering Temperature on Density for Titanium Alloy Foams. Proceeding of the 4<sup>th</sup> Malaysian Powder Metallurgy & Malaysian Metallurgical Conference 2010, Penang, Malaysia, 22-23 November 2010
10. Sri Yulis M. Amin, Norhamidi Muhamad, **Khairur Rijal Jamaludin**. 2010. Development of New Feedstock Formulation Based on Palm Stearin for MIM of WC-Co Hardmetals. Proceeding of the 4<sup>th</sup> Malaysian Powder Metallurgy & Malaysian Metallurgical Conference 2010, Penang, Malaysia, 22-23 November 2010
11. Yusof Daud, Magaret Lucas, **Khairur Rijal Jamaludin**, Samsol Faizal Anis. 2010. Analysis of Surface Deformation Under Static and Ultrasonic Compression of Aluminium. Proceeding of the 4<sup>th</sup> Malaysian Powder Metallurgy & Malaysian Metallurgical Conference 2010, Penang, Malaysia, 22-23 November 2010
12. **Khairur Rijal Jamaludin**, Norhamidi Muhamad, Mohd Nor Hafiez Mohamad Nor, Mohd Halim Irwan Ibrahim, Mohd Yusof Md Daud. 2010. Design of Experiment on the Sintering of SS316L Gas Atomized MIM compact. Proceeding of the 4<sup>th</sup> Malaysian Powder Metallurgy & Malaysian Metallurgical Conference 2010, Penang, Malaysia, 22-23 November 2010
13. N.H. Mohamad Nor, N. Muhamad, A.K. Ariffin, M. Ruzi, **K.R. Jamaludin**. 2010. Sintering Parameter Optimization of Titanium Injection Molding for Multiple Performance Using Grey Relational Analysis. Proceeding of the 4<sup>th</sup> Malaysian Powder Metallurgy & Malaysian Metallurgical Conference 2010, Penang, Malaysia, 22-23 November 2010

14. **K. R. Jamaludin**, N. Muhamad, M. N. A. Rahman, S. Ahmad, M. H. I. Ibrahim, N. H. M. Nor, M. R. Harun, Y. Daud. 2010. **Multiple Performance Optimization for the Best Metal Injection Molding (MIM) Green Compact**. Proc. of The 2<sup>nd</sup> Int Conference on Plant Equipment and Reliability, Kuala Lumpur, 27-29 March 2010
  
15. Nor Hafiez Mohamad Nor; Norhamidi Muhamad; Ahmad Kamal Ariffin; Mohd Ruzi; **Khairur Rijal Jamaludin**. 2010. **Injection Molding Parameter Optimization of Titanium Alloy Powder Mix with Palm Stearin and Polyethylene for Multiple Performance Using Grey Relational Analysis**. Proc. of The 2<sup>nd</sup> Int Conference on Plant Equipment and Reliability, Kuala Lumpur, 27-29 March 2010
  
16. Y. Daud, M. Lucas & **K.R. Jamaludin**. 2010. **Finite Element Modelling of Static and Radial Ultrasonic Interface Friction in Compression Test**. Proc. of The 2<sup>nd</sup> Int Conference on Plant Equipment and Reliability, Kuala Lumpur, , 27-29 March 2010
  
17. **Khairur Rijal Jamaludin**, Norhamidi Muhamad, Hooman Abolhasani, Murtadhahadi, Mohd Nizam Ab. Rahman. 2009. **An Influence of a Binder System to the Rheological Behavior of the SS316L Metal Injection Molding (MIM) Feedstock**, Proceeding of the Int. Conference on Advances in Materials and Processing Technologies (AMPT 2009), Kuala Lumpur) Okt 2009
  
18. **Khairur Rijal Jamaludin**, Norhamidi Muhamad, Mohd Nizam Ab. Rahman, Sufizar Ahmad, Mohd Halim Irwan Ibrahim, Nor Hafiez Mohamad Nor. 2009. **Orthogonal Array Technique for Optimizing the Sintering Parameter of the Metal Injection Molding (MIM) Compact: Best Flexure Strength**, Proceeding of the Int. Conference on Advances in Materials and Processing Technologies (AMPT 2009), Kuala Lumpur) Okt 2009
  
19. S. Ahmad, N. Muhamad, A. Muchtar, J. Sahari, **K. R. Jamaludin**, M. H. I. Ibrahim and N. H. Mohamad Nor. 2009. **Taguchi method for the determination of optimised sintering parameters of titanium alloy foams**, Proceeding of the Int. Conference on Advances in Materials and Processing Technologies (AMPT 2009), Kuala Lumpur) Okt 2009
  
20. N. H. Mohamad Nor, N. Muhamad, **K. R. Jamaludin**, S. Ahmad, & M. H. I. Ibrahim. 2009. **Characterisation of Titanium Alloy Feedstock for Metal Injection Moulding Using Palm Stearin Binder System**, Proceeding of the Int. Conference on Advances in Materials and Processing Technologies (AMPT 2009), Kuala Lumpur) Okt 2009
  
21. M.H.I Ibrahim, N. Muhamad, A.B. Sulong, **K.R Jamaludin**, N.H.M Nor, S. Ahmad. 2009. **Rheological Characterization of Water Atomised Stainless Steel Powder for Micro Metal Injection Molding**, Proceeding of the Int. Conference on Advances in Materials and Processing Technologies (AMPT 2009), Kuala Lumpur) Okt 2009



22. M.H.I Ibrahim, N. Muhamad, A.B. Sulong, **K.R Jamaludin**, N.H.M Nor, S. Ahmad. 2009. **Optimization of Micro Metal Injection Molding for the Highest Green Strength by Using Taguchi Method**, Proceeding of the Int. Conference on Advances in Materials and Processing Technologies (AMPT 2009), Kuala Lumpur) Okt 2009
23. S. Ahmad, N. Muhamad, A. Muchtar, J. Sahari, **K.R. Jamaludin**, M.H.I. Ibrahim & N.H. Mohamad Nor. 2009. **Optimisation of the Sintering Parameters for Density of Titanium Foams Using Taguchi Methods**. Proc. of 3rd Powder Metallurgy Symposium & Exhibition 2009, 12- 13 August 2009, Kuala Lumpur. ISBN: 978-967-5048-61-6
24. Tan Koon Tatt, Norhamidi Muhamad, Che Hassan Che Haron & **Khairur Rijal Jamaludin**. 2009. **Application of Taguchi Method in the Optimization of the Metal Injection Moulding Parameters**. Proc. of 3rd Powder Metallurgy Symposium & Exhibition 2009, 12- 13 August 2009, Kuala Lumpur. ISBN: 978-967-5048-61-6
25. N.H. Mohamad Nor, N. Muhamad, M.H. Ismail, **K.R. Jamaludin**, S. Ahmad & M.H.I. Ibrahim. 2009. **Injection Molding Parameter Optimization of Titanium Alloy Powder Mixed with Palm Stearin and Polyethylene for Green Defects Using Taguchi Method**. Proc. of 3rd Powder Metallurgy Symposium & Exhibition 2009, 12- 13 August 2009, Kuala Lumpur. ISBN: 978-967-5048-61-6
26. Mohd Ruzi H., Norhamidi, M., Abu Bakar, S., **Khairur R.J.**, Nor Hafiez M.N., Sufizar A., Mohd Halim, I.I. & Murtadhahadi. 2009. **Magnesium Alloy Metal Injection Molding Using Wax-Based Binder System**. Proc. of 3rd Powder Metallurgy Symposium & Exhibition 2009, 12- 13 August 2009, Kuala Lumpur. ISBN: 978-967-5048-61-6
27. Murtadhahadi, N. Muhamad, A.B. Sulong, C.H.C. Harun, **K.R. Jamaludin**, M.H.I. Ibrahim, N.H.M. Nor & S. Ahmad. 2009. **Optimization of Injection Parameter in Metal Injection Molding (MIM) Process**. Proc. of 3rd Powder Metallurgy Symposium & Exhibition 2009, 12- 13 August 2009, Kuala Lumpur. ISBN: 978-967-5048-61-6
28. M.H.I. Ibrahim, N. Muhamad, A.B. Sulong, **K.R. Jamaludin**, N.H.M. Nor & S. Ahmad. 2009. **Optimization of Micro Metal Injection Molding for Highest Green Strength by Using Taguchi Method**. Proc. of 3rd Powder Metallurgy Symposium & Exhibition 2009, 12- 13 August 2009, Kuala Lumpur. ISBN: 978-967-5048-61-6
29. **Khairur Rijal Jamaludin**, Nohamidi Muhamad, Mohd Nizam Ab. Rahman, Sufizar Ahmad, Mohd Halim Irwan Ibrahim, Murtadhahadi, Norhafiez Mohamad Nor. 2009. **Sintering Parameter Oprimization with Quality Engineering Technique: Best Flexture Strength**. Proc. of 3rd Powder Metallurgy Symposium & Exhibition 2009, 12- 13 August 2009, Kuala Lumpur. ISBN: 978-967-5048-61-6

30. **Khairur Rijal Jamaludin**, Norhamidi Muhamad, Mohd Nizam Ab. Rahman, Sufizar Ahmad, Mohd Halim Irwan Ibrahim, Murtadhahadi, Nor Hafiez Mohamad Nor. 2009. **The Influence of SS316L's Particle Shape on the Metal Injection Molding**, Prosiding Seminar 3 - AMReG 09, July 2009, Kajang, Selangor, Malaysia. ISBN: 978-967-5048-56-2
  
31. Nor Hafiez Mohamad Nor, Norhamidi Muhamad, Sufizar Ahmad, Mohd Halim Irwan Ibrahim, Murtadhahadi & **Khairur Rijal Jamaludin**. 2009. **Feedstock Characterisation of Titanium Alloy Mix with Palm Stearin Binder System for Metal Injection Moulding**, Prosiding Seminar 3 - AMReG 09, July 2009, Kajang, Selangor, Malaysia. ISBN: 978-967-5048-56-2
  
32. Mohd. Halim Irwan Ibrahim, Norhamidi Muhamad, Abu Bakar Sulong, **Khairur Rijal Jamaludin**, Nor Hafiez Mohamad Nor, Sufizar Ahmad & Murtadhahadi. 2009. **Rheological Characteristic of SS316L for  $\mu$ MIM**. Prosiding Seminar 3 - AMReG 09, July 2009, Kajang, Selangor, Malaysia. ISBN: 978-967-5048-56-2
  
33. Murtadhahadi, Norhamidi Muhamad, Abu Bakar Sulong, Che Hassan Che Haron, **Khairur Rijal Jamaludin**, Mohd. Halim Irwan Ibrahim, Nor Hafiez Mohamad Nor & Sufizar Ahmad. 2009. **Temperature Influence to Solvent Debinding of Metal Injection Molding (MIM) Components**. Prosiding Seminar 3 - AMReG 09, July 2009, Kajang, Selangor, Malaysia. ISBN: 978-967-5048-56-2
  
34. Sufizar Ahmad, Norhamidi Muhamad, Andanastuti Muchtar, Jaafar Sahari, **Khairur Rijal Jamaludin**, Mohd. Halim Irwan Ibrahim, Nor Hafiez Mohamad Nor & Murtadhahadi. 2009. **Preparation of Titanium Pure Foams Using Different Atmosphere of Sintering**. Prosiding Seminar 3 - AMReG 09, July 2009, Kajang, Selangor, Malaysia. ISBN: 978-967-5048-56-2
  
35. Mohd Ruzi H, Norhamidi Mohamad, **Khairur Rijal Jamaludin**, Nor Hafiez M.Nor, Sufizar Ahmad, Mohd Halim Irwan Ibrahim & Murtadhahadi. 2009. **A Review of Workability of Wrought Magnesium Alloys**. Prosiding Seminar 3 - AMReG 09, July 2009, Kajang, Selangor, Malaysia. ISBN: 978-967-5048-56-2
  
36. **K. R. Jamaludin**, N. Muhamad, M. N. Ab. Rahman, S. Y. M. Amin, S. Ahmad, M.H.I. Ibrahim. 2009. **Taguchi Method for Optimising the Sintering Parameter of the Metal Injection Moulding (MIM) Compacts**, Proceeding of FAIMS 2009, Teesside University, UK. pp: 838-842. ISBN: 978-0-9562303-3-1
  
37. S. Ahmad, N. Muhamad, A. Muchtar, J. Sahari, **K. R. Jamaludin**, M. H. I. Ibrahim & N. H. Mohamad Nor. 2009. **Optimisation of Processing Parameters of Titanium Foams Using Taguchi Method for Improved Electrical Conductivity**. Proc. of the International Conference on Sustainable Energy, Bandung Institute of Technology, Bandung, Indonesia, 16-17 June 2009. ISBN 978-979-19992-0-5.

38. Ahmad, S., Muhamad, N., Muchtar, A., Sahari, J., **Jamaludin, K.R.**, & M.H.I, Ibrahim. 2009. **Optimisation of Processing Parameters of Titanium Alloy Foams Using Taguchi Method for Improved Electrical Conductivity.** Proceedings Graduate Publication Workshop 2009, 30 March 2009, Selangor, Malaysia. pp: 65-67. ISBN 978-983-2982-26-5.
  
39. **Jamaludin K.R.**, Muhamad, N., Ab. Rahman, M.N., Amin, S.Y.M., Ahmad, S., Ibrahim, M.H.I. 2009. **Sintering Parameter Optimization of the SS316L Metal Injection Molding (MIM) Compacts for Final Density Using Taguchi Method.** Proceedings of the 3<sup>rd</sup> South East Asian Technical University Consortium, 25<sup>th</sup>-26<sup>th</sup> February 2009, Johor Bahru, Malaysia.
  
40. **Khairur Rijal Jamaludin**, Norhamidi Muhamad, Mohd Nizam Ab. Rahman, Sri Yulis M. Amin, Sufizar Ahmad, Mohd Halim Irwan Ibrahim, Murtadhahadi, Nor Hafiez Mohamad Nor. 2008. **Densification of SS316L Gas-Atomized and Water-Atomized Powder Compact.** Proceeding of Seminar 2ndAMREG 08, 17 Nov 2008, Port Dickson, Malaysia, pp 1-8. ISBN: 978-983-43995-2-8
  
41. M.H.I Ibrahim, N. Muhamad, A.B. Sulong, Murtadhahadi, **K.R. Jamaludin**, S. Ahmad, N.H.M Nor. 2008. **Rheological Characteristic of Water Atomised Stainless Steel Powder for Micro Metal Injection Molding.** Proceeding of Seminar 2ndAMREG 08, 17 Nov 2008, Port Dickson, Malaysia, pp 1-8. ISBN: 978-983-43995-2-8
  
42. Nor Hafiez M.N, Norhamidi M, Sufizar A, Mohd Halim I.I, Murtadhahadi, **Khairur R.J.** 2008. **Metal Injection Moulding of Titanium Using Palm Stearin Based Binder.** Proceeding of Seminar 2ndAMREG 08, 17 Nov 2008, Port Dickson, Malaysia, pp 1-10. ISBN: 978-983-43995-2-8
  
43. Ahmad, S., Muhamad, N., Muchtar, A., Sahari, J., **Jamaludin, K.R.**, Ibrahim, M.H. I., Mohamad Nor, N. H. and Murtadhahadi, I. 2008. **Characterisation of Titanium Foam from Titanium Alloy (Al3Ti) Using the Slurry Method.** Proceeding of Seminar 2ndAMREG 08, 17 Nov 2008, Port Dickson, Malaysia, pp 1-7. ISBN: 978-983-43995-2-8
  
44. Norhamidi Muhamad, Murtadhahadi, Abu Bakar Sulong, Che Hassan Che Harun, **Khairur Rijal Jamaludin**, Mohd Halim Irwan Ibrahim and Sufizar Ahmad. 2008. **Optimisation of Injection Parameter In Metal Injection Molding (MIM) Process.** Proceeding of Seminar 2ndAMREG 08, 17 Nov 2008, Port Dickson, Malaysia, pp 1-9. ISBN: 978-983-43995-2-8
  
45. Sufizar Ahmad, Norhamidi Muhamad, Andanastuti Muchtar, Jaafar Sahari, **Khairur Rijal Jamaludin**, Mohd Halim Irwan Ibrahim, Nor Hafiez Mohamad Nor and Murtadhahadi, **Penghasilan Titanium (Ti) Berbasa dengan menggunakan Kaedah Buburan**, Malaysian Metallurgical Conference 2008, 3-4 December 2008, Bangi, Selangor. ISBN: 976-967-5848-37-1

46. Norhamidi Muhamad, Murtadhahadi Sufizar Ahmad, Abu Bakar Sulong, Che Hassan Che Harun, **Khairur Rijal Jamaludin** and Mohd Halim Irwan Ibrahim, **Kesan Parameter Pencampuran dan Pembutiran ke atas penyediaan bahan suapan yang optimum bagi proses pengacuan suntikan logam**, Malaysian Metallurgical Conference 2008, 3-4 December 2008, Bangi, Selangor. ISBN: 976-967-5848-37-1
  
47. M.H.I. Ibrahim, N. Muhamad, A.B. Sulong, Murtadhahadi, **K.R. Jamaludin**, S. Ahmad, and N.H.M. Nor, **Water atomised Stainless Steel Powder for Micro Metal Injection Molding: Optimization of Rheological Properties**, Malaysian Metallurgical Conference 2008, 3-4 December 2008, Bangi, Selangor. ISBN: 976-967-5848-37-1
  
48. **K.R Jamaludin**, N. Muhamad, M. N. Ab. Rahman, S. Y. M. Amin, S. Ahmad, M. H. I. Ibrahim, I. Murtadhahadi, N. H. M. Nor, **The Influence of SS316L's Particle Shape on the Injection Molding of a Composite Binder Feedstock** (CAFEO 08, Bangkok Thailand) Nov 2008
  
49. **Khairur Rijal Jamaludin**, Norhamidi Muhamad, Mohd Nizam Ab. Rahman, Murtadhahadi, Sri Yulis M. Amin, **Rheological Investigation of Water Atomised Metal Injection Molding Feedstock for Processibility Prediction** (Advances in Materials and Processing Technologies (AMPT 2008), Bahrain) Nov 2008
  
50. Sri Yulis M. Amin, Norhamidi Muhamad, Shahrir Abdullah, **Khairur Rijal Jamaludin**. 2008. **Application of RSM Technique to Optimize the Solvent Debinding Process for MIM Compacts**. Proceeding of Brunei International Conference in Engineering and Technology (BICET). 3 & 4<sup>th</sup> November 2008, Brunei Darussalam.
  
51. S. Ahmad, N.Muhamad, A. Muchtar, J. Sahari, **K. R. Jamaludin**, M. H. I. Ibrahim, N., H. Mohamad Nor and I. Murtadhahadi. 2008. **Producing of titanium foam using Titanium alloy (Al3Ti) by slurry method**. Proceeding of Brunei International Conference in Engineering and Technology (BICET). 3 & 4<sup>th</sup> November 2008, Brunei Darussalam.
  
52. Muhammad Hussain Ismail, Mohd Afian Omar, Norhamidi Muhamad, Istikamah Subuki, Khairul Rijal Jamaludin, Iain Todd and Hywel A. Davies, **Some Critical Assessments of Powder Characterization for Metal Injection Moulding (MIM) Process**, Proc. Of UK-Malaysia Engineering Conference (UK-MEC 2008), Univ College of London. pp. 1-10. ISBN: 978-0-9559952-0-0
  
53. Sufizar Ahmad, Norhamidi Muhamad, Andanastuti Muchtar, Jaafar Sahari, **Khairur Rijal Jamaludin** & Mohd Halim Irwan Ibrahim, **Sintering Effect for Titanium Foam Prepared by Slurry Method**, Proceedings of the 18th International Conference on Flexible Automation and Intelligent Manufacturing June 30<sup>th</sup> – July 2<sup>nd</sup>, 2008, University of Skövde, Sweden, page 887-893

54. **Khairur Rijal Jamaludin**, Norhamidi Muhamad, Sri Yulis M. Amin, Mohd Nizam Ab. Rahman, Muhammad Hussain Ismail, Murtadhahadi, **Injection Molding Parameter Optimization Using Taguchi Method For Highest Green Strength For Bimodal Powder Mixture with SS316L in PEG, and PMMA** (World Powder Metallurgy & Particulate Material Congress 2008, Washington, DC USA): 8- 12 June 2008
55. Norhamidi Muhamad, Murtadhahadi, Che Hassan Che Haron, Abu Bakar Sulong, **Khairur Rijal Jamaludin**, Sufizar Ahmad, Mohd Halim Irwan Ibrahim & Nor Hafiez Mohamad Nor. 2008. **Kesan suhu penyuntikan yang tidak optimum terhadap kecacatan jasad anum pada proses penyuntikan logam (MIM)**. Prosiding Seminar AMREG 08, 12 Jun 2008, Seremban, Malaysia. m/s: 59-66.
56. Norhamidi Muhamad, Murtadhahadi, Che Hassan Che Haron, Abu Bakar Sulong, **Khairur Rijal Jamaludin**, Sufizar Ahmad, Mohd Halim Irwan Ibrahim & Nor Hafiez Mohamad Nor. 2008. **Pembebanan serbuk yang optimum bagi bahan suapan daripada SS 316 L, PEG, PMMA dan AS bagi proses pengacuanan suntikan logam (MIM)**. Prosiding Seminar I - AMReG 08, 12 Jun 2008, Seremban, Malaysia. m/s: 75-82.
57. **Khairur Rijal Jamaludin**, Norhamidi Muhamad, Mohd Nizam Ab. Rahman, Sri Yulis M. Amin, Sufizar Ahmad, Mohd Halim Irwan Ibrahim, Murtadhahadi & Nor Hafiez Mohamad Nor. 2008. **Pengaruh tekanan penyuntikan, suhu penyuntikan dan beban serbuk terhadap ketumpatan jasad anum: analisis varian**. Prosiding Seminar I - AMReG 08, 12 Jun 2008, Seremban, Malaysia. m/s: 83-91.
58. **Khairur Rijal Jamaludin**, Norhamidi Muhamad, Mohd Nizam Ab. Rahman, Sri Yulis M. Amin, Sufizar Ahmad, Mohd Halim Irwan Ibrahim, Murtadhahadi & Nor Hafiez Mohamad Nor. 2008. **Analisis taburan saiz partikel serbuk SS316L bagi kegunaan proses penyuntikan acuan logam**. Prosiding Seminar I - AMReG 08, 12 Jun 2008, Seremban, Malaysia. m/s: 92-99.
59. **Khairur Rijal Jamaludin**, Norhamidi Muhamad, Mohd Nizam Ab. Rahman, Sri Yulis M. Amin, Sufizar Ahmad, Mohd Halim Irwan Ibrahim, Murtadhahadi & Nor Hafiez Mohamad Nor. 2008. **Kajian prestasi penyahikatan larutan dengan menggunakan kaedah Taguchi**. Prosiding Seminar I - AMReG 08, 12 Jun 2008, Seremban, Malaysia. m/s: 100-108.
60. Sri Yulis M. Amin, Norhamidi Muhamad, Shahrir Abdullah & **Khairur Rijal Jamaludin**. 2008. **Kajian pengoptimuman penyahikatan larutan menggunakan kaedah permukaan sambutan**. Prosiding Seminar I - AMReG 08, 12 Jun 2008, Seremban, Malaysia. m/s: 109-117.
61. Sufizar Ahmad, Norhamidi Muhamad, Andanastuti Muchtar, Jaafar Sahari, **Khairur Rijal Jamaludin**, Mohd Halim Irwan Ibrahim, Nor Hafiez Mohamad Nor &

- Murtadhahadi. 2008. **Pembangunan dan penghasilan titanium berbusa**. Prosiding Seminar I - AMReG 08, 12 Jun 2008, Seremban, Malaysia. m/s:118-123.
62. Nor Hafiez Mohamad Nor, Norhamidi Muhamad, Sri Yulis M. Amin, Sufizar Ahmad, Mohd Halim Irwan Ibrahim, Murtadhahadi & **Khairur Rijal Jamaludin**. 2008. **Pengacuan suntikan logam (mim) bagi serbuk titanium dengan sistem bahan pengikat stearin sawit**. Prosiding Seminar I - AMReG 08, 12 Jun 2008, Seremban, Malaysia. m/s: 124-132.
63. Mohd Halim Irwan Ibrahim, Norhamidi Muhamad, **Khairur Rijal Jamaludin**, Sufizar Ahmad, Nor Hafiez Mohamad Nor, Murtadhahadi. 2008. **Pengoptimuman parameter dalam pengacuan suntikan logam mikro ( $\mu$ MIM)**. Prosiding Seminar AMREG 08, 12 Jun 2008, Seremban, Malaysia. m/s: 238-247.
64. **Khairur Rijal Jamaludin**, Norhamidi Muhamad, Mohd Nizam Ab. Rahman, Sri Yulis M. Amin, Murtadhahadi, **Analysis of Variance on the Metal Injection molding parameters using a bimodal particle size distribution feedstock**, Proceeding of International Conference of Mechanical and Manufacturing Engineering (ICME) 21-23 May 2008
65. Norazmein Abdul Raman, **Khairur Rijal Jamaludin**. 2008. **Implementation of Toyota Production System (TPS) in the Production Line of a Local Automotive Parts Manufacturer**. Proceeding of International Conference of Mechanical and Manufacturing Engineering (ICME) 21-23 May 2008
66. Hayati @ Habibah Abdul Talib, Khairul Anuar Mohd Ali, **Khairur Rijal Jamaludin**. 2008. **Quality Assurance in Halal Food Manufacturing in Malaysia: A Preliminary Study**. Proceeding of International Conference of Mechanical and Manufacturing Engineering (ICME) 21-23 May 2008
67. **Khairur Rijal Jamaludin**, Norhamidi Muhamad, Sri Yulis M. Amin, Mohd Nizam Ab. Rahman, Shahrir Abdullah, Muhammad Hussain Ismail, **Metal Injection Molding (MIM) Feedstock Preparation With PMMA Emulsion and PMMA Powders**, Proceeding of Regional Conference on Engineering Mathematics, Mechanics, Manufacturing, Architecture (EM $\beta$ ARC) 2007
68. Sri Yulis M. Amin, Norhamidi Muhamad, Shahrir Abdullah, **Khairur Rijal Jamaludin**, **Influence of Temperature and Powder Loading on Solvent Debinding of Metal Injection Moulding Compacts**, Proceeding of Regional Conference on Engineering Mathematics, Mechanics, Manufacturing, Architecture (EM $\beta$ ARC) 2007
69. **Khairur Rijal Jamaludin**, Norhamidi Muhamad, Mohd Nizam Ab. Rahman, Sri Yulis M. Amin, Muhammad Hussain Ismail, **Optimal Injection Parameters For Minimizing Defects in Metal Injection Molding (MIM): An Experimental**

**Design**, Proceeding of Regional Conference on Engineering Mathematics, Mechanics, Manufacturing, Architecture (EM<sup>3</sup>ARC) 2007

70. Norhamidi Muhamad, **Khairur Rijal Jamaludin**, Mohd Nizam Ab. Rahman, Sri Yulis M. Amin, Shahrir Abdullah, **Temperature and Powder Loading Influence to the Injection of Bimodal Stainless Steel Powder Mixtures**, The Third Asian Particle Technology Symposium, Changping, Beijing, China, 2007
71. **Khairur Rijal Jamaludin**, Norhamidi Muhamad, Sri Yulis M. Amin, Mohd Nizam Ab. Rahman, Shahrir Abdullah, Muhammad Hussain Ismail, **Rheological Investigation of 316L Stainless Steel Feedstocks Prepared with PMMA Emulsion And PMMA Powders**, European Congress and Exhibition on Advanced Materials and Processes (Euromat 2007), Nuremberg, Germany 2007
72. **Khairur Rijal Jamaludin**, Norhamidi Muhamad, Sri Yulis M. Amin, Mohd Nizam Ab. Rahman, Shahrir Abdullah, Muhammad Hussain Ismail, **Rheological Properties Of The MIM Feedstocks Prepared With Bimodal Powder Particles**, European Congress and Exhibition on Advanced Materials and Processes (Euromat 2007), Nuremberg, Germany 2007
73. **Khairur Rijal Jamaludin**, Norhamidi Muhamad, Mohd Nizam Ab. Rahman, **Proses Penyuntikan Acuan Logam Dengan Menggunakan Serbuk Logam Keluli Tahan Karat Dalam Taburan Bimodal**, Seminar Siswazah UKM 2007. ISBN: 978-983-2982-15-9
74. **Khairur Rijal Jamaludin**, Norhamidi Muhamad, Mohd Nizam Ab. Rahman, Sri Yulis M. Amin, Shahrir Abdullah, Muhammad Hussain Ismail, **Temperature Influence to the Injection Molding of Fine and Coarse SS316L Powder with PEG, PMMA and Stearic Acid Binder system**, Malaysian Symposium On Advances In Powder Metallurgy & Particulate Materials, 2007. ISBN: 978-967-305-047-5
75. **Khairur Rijal Jamaludin**, Norhamidi Muhamad, Mohd Nizam Ab. Rahman, Sri Yulis M. Amin, Shahrir Abdullah, Muhammad Hussain Ismail. 2007. **Influence of Temperature to the Injection Molding of Bimodal Powder Mixtures**, World Engineering Congress 2007. ISBN: 978-983-43571-0-8
76. Sri Yulis M. Amin, Norhamidi Muhamad, **Khairur Rijal Jamaludin**, Shahrir Abdullah, and Mohd Nizam Ab. Rahman. 2007. **Rheological Investigation Of MIM Feedstocks Prepared with Different Particle Sizes**, World Engineering Congress 2007 ISBN: 978-983-43571-0-8
77. **Khairur Rijal Jamaludin**, Norhamidi Muhamad, Mohd Nizam Ab. Rahman, **Reka Bentuk Eksperimen Bagi Kajian Pengoptimuman Parameter: Penyediaan Bahan Suapan Proses Penyuntikan Acuan Logam Yang Menggunakan**

**Serbuk Dwiragaman**, Prosiding Penyelidikan & Pengembangan 2006, Jabatan Kejuruteraan Mekanik & Bahan, UKM

78. **Khairur Rijal Jamaludin**, Norhamidi Muhamad, Mohd Nizam Ab. Rahman, **Kajian Pembangunan Kebolehprosesan Penyuntikan Acuan Logam Bagi Serbuk Logam Berpartikel Dwiragaman**, Prosiding Penyelidikan & Pengembangan 2006, Jabatan Kejuruteraan Mekanik & Bahan, UKM
79. **Khairur Rijal Jamaludin**, Norhamidi Muhamad, **Advanced Manufacturing Process With Metal Injection Moulding**, Malaysian Science and Technology Congress 2006
80. **Khairur Rijal Jamaludin**, Salehuddin Muhammad, **Diploma of Technology: Tertiary Education for ATM's Personnel**, Proceeding of the International Conference on Defense Technology 2005
81. **Khairur Rijal Jamaludin**, Norazmein Abd Raman, **Teaching Fluid Mechanics with the Cooperative Learning**, Proceeding of the Brunei International Conference on Engineering and Technology 2005 (BICET 2005)
82. **Khairur Rijal Jamaludin**, Hayati @ Habibah Abd Talib, Tan Chiaw Hooi, **A Case Study: Performance Measurement For The Logistics Operations**, Proceeding of the Brunei International Conference on Engineering and Technology 2005 (BICET 2005)
83. **Khairur Rijal Jamaludin**, Habibah @ Norehan Harun, **Nurturing Lean Manufacturing Concepts in the Industrial Engineering Subject at the Undergraduate Level**, Proceeding of the 2005 Regional Conference on Engineering Education
84. **Khairur Rijal Jamaludin**, Norazmein Abd Raman, **Learning Fluid Mechanics through Cooperative Learning**, Proceeding of the 2005 Regional Conference on Engineering Education
85. **Khairur Rijal Jamaludin**, Hayati @ Habibah Abd Talib, Tan Chiaw Hooi, **Performance Measurement Improvement for the Logistics Operations**, Proceeding of the Malaysian Science and Technology Congress 2005
86. **Khairur Rijal Jamaludin**; **Diploma Teknologi : Satu Lembaran Baru Bagi Latihan Ke Arah Menghasilkan Kor Jurutera**, Proceeding Of The Regional Conference On Engineering Education (CEE): December 2004
87. **Khairur Rijal Jamaludin**, Norazmein Abd Raman, Habibah @ Norehan Harun, **Diploma In Mechanical Engineering: UTM's Perspective**, Proceeding Of 19<sup>th</sup>



International Conference on CAD/CAM, Robotic And Factories Of Future, Kuala Lumpur. 22-24<sup>th</sup> July 2003

### **CONSULTANCY**

1. Upgrading of the Institut Yayasan Negri Sembilan to the University College
2. Quite a number of consultation works done related with UTM's collaboration programs
3. Study on Exploring Re-manufacturing activities in Malaysia for Ministry of International Trade and Industry (MITI): 19/12/2011-1/6/2012: RM 99,935.00