

BRIEF CV

	<p>Suraya Mohd Tahir Department of Mechanical & Manufacturing Engineering, Universiti Putra Malaysia 43400 UPM Serdang, Selangor, MALAYSIA. Tel: +603-89464383 Fax: +603-86567122 Email: surayamt@eng.upm.edu.my</p> <p>Areas of Interest: Mechanics of Materials, Powder Compaction, Finite Element Modelling, Fracture Mechanics.</p>	 <p>UPM UNIVERSITI PUTRA MALAYSIA BERILMU BERBAKTI leading global engineering www.eng.upm.edu.my</p>
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Academic Qualification

PhD (Doctor of Philosophy), *Mechanical Engineering*, Universiti Kebangsaan Malaysia.

BEng. (Hons), *Mechanical Engineering*, University of Manchester Institute of Science & Technology (UMIST), United Kingdom.

Professional Membership/Affiliation

Registered with Board of Engineers Malaysia (BEM)
Graduate Member, Institute of Engineers Malaysia (IEM)

Appointments

- June 2006 – to date **Lecturer**, Department of Mechanical & Manufacturing Engineering, Faculty of Engineering, UPM
- **(Unpaid leave from Jan 2007 to July 2009)**
- 2000 –2006 **Tutor**, Department of Mechanical & Manufacturing Engineering, Faculty of Engineering, UPM

Areas of Interest

- Mechanics of Materials
- Powder Compaction
- Finite Element Modelling
- Fracture mechanics

Current Project

No.	Title	Role (Main/Co-researcher)	Sponsor/Grant and Amount (RM)	Period (year)	Status (Complete d/Ongoing)
1	Finite Element Modelling of Cohesive Fracture in Particulate Materials	Main researcher	RUGS: RM 30,000	2 years (Starting Feb. 2010)	Ongoing
2.	Fracture Criteria and Modelling of Fracture in Metal Powder	Main Researcher	FRGS (MOHE): RM 40,000	2 years (Starting Apr.	Ongoing

	Compaction			2010)	
3.	A correlation between the tablet elastic relaxation during ejection and its mechanical integrity	Co-researcher	RUGS: RM 30,000	2 years (Starting Feb. 2010)	Ongoing
4.	The tablet diametrical elastic relaxation during ejection and its stored elastic energy	Co-researcher	FRGS (MOHE): RM 40,000	2 years (Starting Apr. 2010)	Ongoing

Selected Publications

Journals:

1. **S.M. Tahir**, A.K. Ariffin, M.S. Anuar, Finite element modelling of crack propagation in metal powder compaction using Mohr-Coulomb and Elliptical Cap yield criteria, *Powder Technology*, vol. 202, 2010, p. 162-170.
2. **S.M. Tahir** & A.K. Ariffin, Crack Propagation of Metal Powder Compact, *Jurnal Kejuruteraan*, 20, 2008, pp. 115-124.
3. **S.M. Tahir** & A.K. Ariffin, Fracture in Metal Powder Compaction, *International Journal of Solids and Structures*, 43 (2006) pp. 1528-1542.
4. **S.M. Tahir** & A.K. Ariffin, Simulation of Crack Propagation in Metal Powder Compaction, *International Journal for Computational Methods in Engineering Science and Mechanics*, 7, 2006, pp. 293-302.
5. A.K. Ariffin & **S.M. Tahir**, Modelling of Crack Propagation in Metal Powder Compact, *Key Engineering Materials*, Vols 306-308, 2005, pp. 97-102.
6. **S.M. Tahir**, A.K. Ariffin & N. Muhamad, Fracture Behaviour of Metal Powder Compact, *Journal of Mechanical Engineering, UiTM*, 3(1), 2006, pp. 1-16.

Proceedings:

7. A. K. Ariffin & **S.M. Tahir**, Fracture in Metal Powder Compact, 8th International Conference on Computational Plasticity (COMPLAS), Barcelona, 5 – 7 Sept. 2005, pp. 898-901.
8. A. K. Ariffin & **S.M. Tahir**, Modeling of Crack Propagation in Metal Powder Compact, 6th International Conference On Fracture & Strength of Solid (FEOFS), Bali, Indonesia, April 4 – 6, 2005, pp. 102-107.
9. **S.M. Tahir** & A.K. Ariffin, Crack Propagation of Metal Powder Compact, National Seminar on Computational and Experimental Mechanics (CEM), Bangi, Malaysia, 17-18 May 2005.

10. **Suraya Mohd Tahir**, Ahmad Kamal Ariffin Mohd. Ihsan, Nik Abdullah Nik Mohamed & Norhamidi Muhamad, Kriteria Kegagalan Padatan Serbuk Logam, Prosiding Pengembangan & Penyelidikan 2003, Universiti Kebangsaan Malaysia, pp. 63-68.

Awards and Recognitions

Award/Recognition	Organisation Awarded	Date
1) Gold Medal 2) Special Award for Science and Engineering Sector. Project title: Crack Propagation Prediction for Machine Component	Ekspo Penyelidikan dan Inovasi, Universiti Kebangsaan Malaysia	2005