

CURRICULUM VITAE



Assoc. Prof. Dr. Azhar bin Abu Bakar
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ACADEMIC QUALIFICATION

1. Ph.D. (Advanced Polymer Composites), 1999, University of Sheffield, UK.
2. M.Sc. (Polymer Composites), 1995, Universiti Sains Malaysia.
3. B. Tech. (Polymer Technology), 1992, Universiti Sains Malaysia.

AREAS OF INTEREST

1. Epoxy based polymer composites
2. Banana stem fibre filled agar green composites
3. Hollow epoxy particles filled thermoset composites
4. Fibre-matrix interface/interphase
5. Plastics processing

TEACHING EXPERIENCE

No.	Course Code	Course Name	Year
1.	EBP 303/3	Plastics Materials	2005 – to date
2.	EBP 310/2	Plastics Processing	2003 – to date
3.	EBP 324/2	Polymer Degradation and The Environment	2013 – to date
4.	EBP 317/3	Advanced Polymer Composites	2013 – 2014
5.	EBP 402/3	Mould and Die Design	2005 – to date
6.	EBP 526/3	Electronic Packaging	2006 – to date
7.	EBP 216/2	Polymer Engineering Lab	2003 – to date
8.	EBP 418/2	Plastics Lab	2005 – to date
9.	EBP 212/3	Latex Processing	2006 – 2007
10.	EBS 333/3	Materials Characterization	2004 - 2006

PROFESSIONAL QUALIFICATION / MEMBERSHIP

1. Member, The Institution of Mechanical Engineers (IMechE), UK (CEng)
2. Member, Plastics & Rubber Institute Malaysia (PRIM)
3. Member, Society of Plastics Engineers (SPE), USA
4. Member, Institute of Materials Malaysia (IMM)
5. Member, Society of Engineering Education Malaysia (SEEM)
6. Member, Malaysian Society for Engineering and Technology (MSET)
7. Member, Microscopy Society of Malaysia (MSM)

PUBLICATIONS

(Selected Publications: 2013-2014)

1. L F Low and A. Abu Bakar. (2014), *Journal of Composite Materials*. 48: 1725-1733
2. Zhong Xian Ooi, Hanafi Ismail and A. Abu Bakar. (2014), *Polymer Composites*, 35(4): 691-697
3. Zhong Xian Ooi, Hanafi Ismail and A. Abu Bakar.(2014). *Polymer Testing*.37: 156-162
4. Zhong Xian Ooi , Hanafi Ismail and A. Abu Bakar.(2014), *Polymer-Plastics Technology And Engineering*. 53: 123-129
5. N.H. Mohd Zulfli, A. Abu Bakar and W.S. Chow. (2014). *High Performance Polymers*. DOI: 10.1177/0954008313507961
6. Ooi, Z.X., Hanafi Ismail. , A. Abu Bakar. (2014). *Iranian Polymer Journal*. 23: 723-730
7. MH Zamri, H Md Akil, ZA Mohd Ishak, A. Abu Bakar. (2014). *Polymer Composites*. DOI: 10.1002/pc.23025
8. Ooi Xian Zhong , Hanafi Ismail, Nor Aziah Abdul Aziz, A Abu Bakar. *Polymer Plastics Technology and Engineering*. 0360-2259
9. Ooi, Z.X., Hanafi Ismail., A. Abu Bakar, Teoh, Y.P. (2014). *Bioresources*. 9: 7926-7940
10. Ooi, Z.X., Ismail, H., A. Abu Bakar. (2014). *Advanced Materials Research*. Vol. 844. pp. 305 - 308
11. Muhammad Razak Osman, Adlan Akram Mohamad Mazuki, Hazizan Md Akil, Zainal Arifin Mohd Ishak, A Abu Bakar (2014). *Key Engineering Materials*. Vol. 594-595. pp. 691-695
12. L.F. Low & A. Abu Bakar. (2013). *Sains Malaysiana*, Volume 42, No 4, pp 443 - 448
13. Ooi, Z.X., Ismail, H. and Abu Bakar, A. (2013). *Polymer Testing*, 32, pp 38 - 44
14. Anis Safinas Md Saad, A. Abu Bakar and Hanafi Ismail. (2013). *BioResources*, 8 (2), pp 2386 - 2397
15. M Jawaid, HPS A. Khalil, A Abu Bakar, A. Hassan and R. Dungani. (2013). *Journal of Composite Materials*. 47(13), pp 1633-1641
16. Ooi Zhong Xian, Hanafi Ismail and A Abu Bakar. (2013). *BioResources*, 8(4), pp 5133-5144, 2013
17. Ooi, Z.X., Ismail, H. and Abu Bakar, A. (2013). *PolymerTesting*, 32(4), pp 625-630
18. NH Mohd Zulfli, A. Abu Bakar and WS Chow. (2013). *Journal of Reinforced Plastics and Composites*,32(22), pp 171

RESEARCH GRANTS

(As Project Leader)

No.	Project Title	Amount (RM)	Year	Source
1.	Interaction Mechanism Of Banana Stem Fibres Filled Agar Green Composites	74,000	2014-2017	FRGS
2.	The Effect of Microcrystalline Kenaf Fibre on Mechanical and Thermal Properties of HDPE/EPDM Thermoplastic Elastomer Composites	39,400	2012-2014	USM
3.	Production, Characterization and Utilization of Hollow Epoxy Practicles)	37,900	2009-2012	USM
4.	Preparation and Properties of Halloysite nanotubes Filled Ethylene Propylene Diene Terpolymer (EPDM) Nanocomposites	38,292	2007-2010	USM

POSTGRADUATE STUDENT SUPERVISION

PhD (Main/Co- Supervisor)

No.	Name	Title	Status
1.	Du Ngoc Uy Lan	Production and Utilization of Porous Hollow Epoxy by Water-Based Method as an Advanced Filler	Graduated
2.	Abdul Malek Bin Ya'acob	Kenaf /Glass Hybrid Composites: Preparation, Characterization and Properties	Graduated
3.	Pooria Pasbakhsh	Preparation and Properties of Halloysite Nanotubes (HNTs) Filled Ethylene Propylene	Graduated
4.	Mohammad Jawaid	Diene Monomer (EPDM) Nanocomposites Development and Characterization of Oil Palm Empty Fruit Bunch/Jute Fibres Reinforced Epoxy Hybrid Composites	Graduated
5.	Zunaida Binti Zakaria	Compressive Properties and Simulation of Low Density Polyethylene Foams	Graduated
6.	Noorulnajwa Diyana	Development and Study of Polymeric Biocomposites from Agrowaste	On-going
7.	Ooi Zhong Xian	Potential Utilization of Modified Oil Palm Ash as a Filler in Natural Rubber Vulcanizates	On-going
8.	Pang Ai Ling	Preparation And Properties Of Kenaf-Filled Linear Low Density Polyethylene/Poly (Vinyl Alcohol) Composites	On-going

AWARDS / RECOGNITION

No.	Type	Title	Awarding Authority	Level/Medal	Year
1.	Academic Recognition	Appointment as Program and study Advisory Committee for the Diploma of Aircraft Maintenance Technology (Composite) at UniKL MIAT	UniKL (MIAT)	National	2014-2016

PROFESSIONAL SERVICES / CONSULTATION

Selected Major Activities (2013 – 2014)

No.	Year	Title	Company
1.	2014	1. Testing on Plastics Parts (Failure analysis)	B Braun Medical Industries Sdn Bhd
2.	2014	2. Testing of Unknown Particle on Needle Test on sample (Melt flow index test)	Luster Precision Engineering Sdn Bhd
3.	2014	Tensile test on LLDPE film	MY FlexiTank Industries Sdn Bhd
4.	2014	Test on sample (Melt flow index test)	Molex (M) Sdn Bhd
5.	2014	Test on sample (Shear Strength test)	Cipli Industries Sdn Bhd
6.	2013	Tensile testing on samples	International Liquid Packaging Solutions Pte Ltd
7.	2013	Testing of unknown recycle plastics sample	Pratecom Corporation Sdn Bhd
8.	2013	DSC analysis on samples	Teleflex Medical Sdn Bhd
9.	2013	Tensile testing on samples	ITW Meritex Sdn Bhd
10.	2013	Notched Izod Impact test	Luster Precision Engineering Sdn Bhd
11.	2013	Shear Strength test	Cipli Industries Sdn Bhd
12.	2013	Tg analysis of packaging foil by using DSC	B Braun Medical Sdn Bhd