

CURRICULUM VITAE



Dr. Anasyida Abu Seman
 Materials Engineering Programme
 School of Materials & Mineral Resources Engineering
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ACADEMIC QUALIFICATION

1. Ph.D. Materials Science, 2010, Universiti Kebangsaan Malaysia.
2. M.Sc. Materials and Mineral Resources Engineering, Universiti Sains Malaysia.
3. B. Eng. (Hons) 1998, Materials Engineering, Universiti Sains Malaysia.

AREAS OF INTEREST

1. Casting – semisolid, open pore structure squeezing casting
2. Wear of materials
3. Lead free solder

TEACHING EXPERIENCE

No.	Course Code	Course Name	Year
1.	EBB 225/3	Physical Metallurgy	2010 – present
2.	EBB 441/3	Applied Metallurgy	2011 – present
3.	EBB 428/3	Occupational Safety & Health	2011 – present

PROFESSIONAL QUALIFICATION / MEMBERSHIP

1. Member, Malaysian Tribology (MyTribology)
2. Member of Board Engineering Malaysia (BEM)
3. Member of Institute Engineering Malaysia (IEM)
4. Member of Malaysian Powder Metallurgy & Particulate Material Association
5. Associate Asian Engineer
6. CIDB

PUBLICATIONS

(5 Selected Publications: 2012-2015)

1. **A.S. Anasyida**, A.R. Daud & M.J. Ghazali. 2009. Microstructural Study of Al-Si-Mg Containing Cerium, *Malaysian Journal of Microscopy Electron*, Vol. 4, 2009, pp. 170-174. (Scopus).
2. **Anasyida, A.S.**, Daud, A.R. & Ghazali, M.J. 2009. Dry sliding wear behaviour of Al-4Si-4Mg alloys by addition of cerium. *International Journal on Mechanical and Materials Engineering* 4(1): 25-27. Scopus.
3. **Anasyida, A.S.**, Daud, A.R. & Ghazali, M.J. 2010. Dry sliding wear behaviour of Al-12Si-4Mg alloy with cerium addition. *Materials & Design* 31(1): 365-374.(Elsevier)
4. **Anasyida, A.S.**, A.R.Daud & Ghazali. 2010. Effect of aging temperature on microstructure and microhardness of Al-4Si-4Mg alloy containing cerium. *Malaysian Journal of Microscopy*, Vol 6 : 155-158.(Scopus).
5. **Anasyida, A.S.**, Sharif, N.M. 2012. Microstructure and mechanical properties of Sn-3Ag-0.5Cu alloy containing Fe, Ce, Sb an Ce on Cu substrate, *Malaysian Journal of Microscopy*, Vol. 8, 102-106. Scopus.
6. **Anasyida, A.S.**, Nurulakmal, M.S.2012. Fabrication of low cost cutting wheel via thermal spary process. AIP Conference Proceedings 1476, 327. Scopus
7. Almanar, I.P, Hanapi, M.H., **Anasyida A.S.**, Hussain, Z.2012. Friction stir welding of 6061-T6 aluminium alloy. *Advanced Materials Research* 501, 145-149. (Trans Tech Publications)
8. **Anasyida, A.S.**, Daud, A.R. & Ghazali, M.J. 2013. Wear behaviour of eutectic and hypoeutectic Al-Si-Mg-Ce alloys. *Industrial Lubrication and Tribology* 65(2), 8-8. (Emerald Publishing)
9. **Anasyida, A.S.**, Zuhailawati, H., Daud, A.R. & Ghazali, M.J. 2013. Characterisation of phases and lattice parameter in eutectic and hypoeutectic Al-Si-Mg-Ce cast allo. *Advanced Materials Research* 620, 50-54.(Trans Tech Publications)
10. Hishamuddin Hj. Hussain, Abdul Razak Daud, Muhammad Daud, **Anasyida Abu Seman** & Hafizal Yazid. 2013. The influence of temperature on the oxide layer formation of aluminized carbon steel. *Advanced Materials Research* 620, 137-141. (Trans Tech Publications)
11. **Anasyida, A.S.**, Norani Abdul Manaf, B.K.Dhindaw, Y.Mahani. 2013. Material Characterization of Al-Si/SiCp Composite via Pressureless Infiltration using Polystyrene as External Binder. *Advanced Materials Research* 626, 948-952. (Trans Tech Publications)
12. Nur Surianni Ahamad Suffin, **Anasyida Abu Seman**, Zuhailawati Hussain. 2013. Effect of Dissolution Times on Compressive Properties and Energy Absorption of Aluminum Foam. *Sains Malaysiana* 42(12), 1755-1761.
13. **Anasyida, A.S.**, M.S.Nurulakmal, M.Yusoff, C.L.Teh. 2014. Microstructural study of Sn-3.0Ag0.5Cu alloy on Cu/NiP-coated substrate by addition of Fe, Sb and Ce. *Advanced Materials Research*, 858, 116-121. (Trans Tech Publications)
14. **A.S.Anasyida**, H.Zuhailawati, M.N.Ramdziah, J.Y.S.Li. 2014. Microstructural study of hypereutectic Al-15%Si containing Ce. *Advanced Materials Research* 858, 111-115.
15. Laila Masrur Mohd Nasir, **A.S.Anasyida**, H.Zuhailawati. 2014. Effect of Grain Refiner on Microstructure of Semi-Solid A356 Aluminium Alloy. *Advanced Materials Research* 1024, 251-254.

16. P.T. Teo, **A.S.Anasyida**, M.S.Nurulakmal.2014. Characterization of Ceramic Tiles Added with EAF Slag Waste, *Advanced Materials Research* 1024, 211-214.
17. Soon Vern Yee, Zuhailawati Hussain, **Anasyida Abu Seman**, Muhammad Syukron, Indra Putra Almanar. 2014. The Influence of ECAP Pass through Bc Route on Mechanical Properties of Aluminum Alloy 6061, *Advanced Materials Research* 1024, 219-222.
18. M Hasmaliza, **AS Anasyida**, WL Gan. 2014. Effect of Feldspar Content on Electric Arc Furnace Slag (EAFS) Added Tiles, *Advanced Materials* 1024, 235-238. (Trans Tech Publications)
19. N Van Thuong, Z Hussain, **AS Anasyida**, TD Huy. 2014. Preparation of Globular Microstructure Aluminum Alloy Using Cooling Slope Casting as Feed Material for Equal Channel Pressing Process, *Advanced Materials Research* 1024,, 247-250. (Trans Tech Publications)
20. Z Hussain, LMM Nasir, **AS Anasyida**, BK Dhindaw.2014. Solidification of Aluminum Copper Alloy during Twin Roll Strip Casting, *Advanced Materials Research* 1024, 231-234. (Trans Tech Publications)
21. Soon Vern Yee, Zuhailawati Hussain, **Abu Seman Anasyida**, Muhammad Syukron, Indra Putra Almanar.2014. Ageing Characteristics of Equal Channel Angular Pressed Al-Mg-Si Alloy, *Advanced Materials Research* 858,, 3-6. (Trans Tech Publications)
22. K Maslinda, MS Nurulakmal, **AS Anasyida**. 2014 Microstructure, Wettability and IMC Formation of Low-Ag SAC Solder on Cu Substrate, *Advanced Materials Research* 1024, 223-226. (Trans Tech Publications)
23. PT Teo, **AS Anasyida**, P Basu, MS Nurulakmal. 2014. Recycling of Malaysia's electric arc furnace (EAF) slag waste into heavy-duty green ceramic tile. *Waste Management* 34, 2697 – 2708. (Trans Tech Publications)
24. Nguyen Van Thoung, Zuhailawati Hussain, **Anasyida Abu Seman**, Tran Duc Huy, Brij Kumar Dhindaw. 2015. Microstructural evolution and wear characteristics of equal channel pressing processed semi-solid cast hypoeutectic aluminium alloys. *Materials Design*, 67, 448-456. doi :1.1016/j.matdes.2014.11.054. (Elsevier)
25. Anasyida, A.S, M.S.Nurulakmal. Wear behavior of carbon steel cutting wheel thermal flame sprayed with chromium carbide. *Industrial Lubrication and Tribology* (Accepted to be published in Issue 1 2016) (Emerald publishing).
26. Y.S.Seo, H.Zuhailawati, **A.S.Anasyida**. 2015. Microstructure Evolution of Conventional and Semi-solid A356 alloy with addition of strontium. , *Advanced Materials Research* 1087, 488-492.
27. Nguyen Van Thoung, Zuhailawati Hussain, **Anasyida Abu Seman**, Tran Duc Huy, Brij Kumar Dhindaw. 2015. Effects of Processing Parameters on Microstructure Evolution of Al-7Si-Mg Alloy by Cooling Slope Casting. Accepted to be published in Journal of Materials Engineering and Performance.
28. A.S.Anasyida, M.S.Nurulakmal. **2016**. Wear behavior of carbon steel cutting wheel thermal flame sprayed with chromium carbide. Accepted to be published in *Industrial Lubrication and Tribology*, issue 1, 2016.
29. **Anasyida, A.S.**, Daud, A.R. 2008. The effect of cerium addition on the microstructure of AlSiMgCe alloy. *Solid State Science and Technology*, Vol. 16 (1):168-174.
30. Anasyida, A.S., Daud, A.R. & Ghazali, M.J. 2010. Tensile and wear properties of eutectic Al-Si-Mg-Ce alloy. *Solid State Science and Technology*, Vol. 1 (18) : 231 : 23.

RESEARCH GRANTS

(As Project Leader)

No.	Project Title	Amount (RM)	Year	Source
1.	Influence of intermetallic compound in strengthening aluminium alloy	RM5000.00	2011-2012	USM Incentive
2.	Fabrication and characterization of as cast and heat treated eutectic Al-Si-Mg alloy containing Ce	RM35,521.00	2006-2009	USM Short Term
3.	Semi-solid state aluminium alloy nucleation and grain growth mechanism	RM68,000.00	2012-2014	FRGS
3.	Development of Aluminum Alloy Based SiC Reinforced Composites by Pressureless Infiltration Route	RM39,821.00	2013-2015	USM Short Term
4.	Semisolid Cryorolling Process Of Nanocrystalline Al-Cu-Mg-Ag Sheet Alloy	RM243,280.00	2013-2016	USM RU
5.	Semisolid nucleation mechanism of open cell foam aluminium alloy	RM152,000.00	2014-2017	FRGS

(As Co-Researcher)

No.	Project Title	Amount (RM)	Year	Source
1.	Utilization of Electric Arc Furnace Steel Slag as Raw Material in Structural Materials	RM39, 21.00	2012-2014	USM Short Term
2.	Mechanical Properties Improvement of Cast Al-Mg-Si alloy through Secondary Plastic Deformation	RM15, 233.32	2012-2015	AUN/SEED-NET
3.	Improvement of Fatigue Strength and Mechanical Properties of Aluminium Alloys A357 Processed by ECAP and Slope-Plate Casting	RM27,837.32	2012-2015	AUN/SEED-NET
3.	Creep of SAC 305 Solder Alloy with Addition of Al and Si	RM 19, 638.57	2012-2015	AUN/SEED-NET
4.	Light Weight and High Strength Nanostructured Aluminum Alloys by Equal Channel Angular Extrusion: Microstructure and Mechanical Properties	RM241,300	2012-2014	Science Fund
5.	Utilization of EAF slag as ceramic tiles	RM50,000.00	2013-2015	Southern Steel Berhad

6.	Thermal Interface Solutions for Test Modules in Semiconductor Industry	RM54,600	2013-2015	CREST
7.	Porous lifep04 cathode Material for Aqueous Rechargeable Lithium-ion Battery	RM 150,100	2013-2015	Science Fund
8.	Electromigration and Diffusion Mechanism Grain Refined Low-Ag Sn-Ag-Cu Solder	RM 111,000	2013-2015	FRGS

POSTGRADUATE STUDENT SUPERVISION

PhD (Main Supervisor)

No.	Name	Title	Status
1.	Laila Masrur	Improvement of semisolid A356 alloy with addition of Sr and TiB ₂ through secondary plastic deformation	Ongoing

PhD. (Co-Supervisor)

1.	Syukron	Improvement of Fatigue Life of A356 Aluminium Alloy Produced With Centrifugal Casting Process	Ongoing
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MSc – Research (Co- Supervisor)

No.	Name	Title	Status
1.	Nguyen Van Thuong	Mechanical Properties Improvement Of Cast Al-Mg-Si Alloy The Secondary Plastic Deformation	Graduated
2.	Pittaya Imlamai	Creep of SAC solder with addition of Al and Si	Ongoing
3.	Maslinda binti Kamarudin	Simulation of Filling and Curing Phases In Injection Moulding Process of Natural Rubber Compound	Ongoing
4.	Nur Ariffah Binti Md Sani	Nano-structured nickel coating to improve surface contact and heat transfer in thermal test module	Ongoing
5.	Masyitah Binti Mt Yusof	Solidification Characteristic In Strip Casting of Aluminium Alloys by Twin Roll Caster	Ongoing

AWARDS / RECOGNITION						
No.	Type	Title		Awarding Authority	Level/Medal	Year
1.	Academic Recognition	Low Cost	Metal Cutting Wheel	Malaysia Technology Expo	National	2003
2.	Academic Recognition	Novel Assembled Components	SURREAL Alloy	Malaysia Technology Expo 2011	National	2011
3.	Academic Recognition	Novel Assembled Components	SURREAL Alloy	IENA, German	International	2012
4.	Academic Recognition	Green Conductive Tile		PENCIPTA	National	2013

PROFESSIONAL SERVICES / CONSULTATION			
Selected Major Activities			
No.	Year	Title	Company
1.	2012	Porosity in casting product	TEM Casting Products Sdn. Bhd.
2.	2014	Michardness, coating thickness, microstructure and morphology on "Rod Compl" and actuator	VAT Manufacturing Malaysia Sdn Bhd