Short CV
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EDUCATION

- Dr.Eng. (Nagoya University, Japan) - 2011
- M.Eng. (Universiti Kebangsaan Malaysia, Malaysia) - 2005
- B.Eng. (Universiti Kebangsaan Malaysia, Malaysia) - 2004

FIELD OF SPECIALIZATION

Tribology (Friction and Wear of Eco-Materials); Surface Engineering

SELECTED PROFESSIONAL APPOINTMENTS

- Vice President, Malaysian Tribology Society: 2017 – 2019
- Depuy Dean (Research & Postgraduate Studies), UTeM: 2016 – 2018
- Executive Member, Society of Engineering Education Malaysia: 2015 – 2017
- Head of Department (Diploma Studies), UTeM: 2012 – 2013
- Editor-in-Chief (2017 – 2019):
  - Jurnal Tribologi (ISI; ISSN: 2289-7232)
- Chief Guest Editor:
  - Journal of Materials Research (IF=1.579; ISI Q2; ISSN: 0884-2914)
  - Transactions of the IMF (IF=0.688; ISI Q2; ISSN: 0020-2967)
  - Composite Interfaces (IF=1.046; ISI Q3; ISSN: 0927-6440)
  - Industrial Lubrication and Tribology (IF=0.406; ISI Q4; ISSN: 0036-8792)
  - International Journal of Materials and Product Technology (IF=0.365; ISI Q4; ISSN: 0268-1900)
- Chairman:
  - MYTRIBOS Special International Symposium on Energy Aspects of Tribology for Sustainable Development, Malaysia.
  - Malaysian International Tribology Conference 2015 (MITC2015), Malaysia
  - Malaysia-Japan International Symposium on Tribology Technology 2016 – Part 2, Malaysia
- International Scientific Committee:
  - International Tribology Conference 2015 (ITC2015), Japan
  - International Conference on Tribology 2015 (TURKEYTRIB'15), Turkey
- Keynote Speaker, SAKURA Symposium 2017, Nagoya, Japan
- Invited Speaker, JAST Tribology Conference 2014, Tokyo, Japan

PROFESSIONAL EXPERIENCES

- Tutor, Universiti Kebangsaan Malaysia: 2004 – 2005
- Package Development Engineer, Vishay Semiconductor (M) Sdn. Bhd.: 2005 – 2005

TEACHING

- Undergraduate level:
  - Manufacturing Process; Integrated Design Project; Tribology; Automotive Technology; Vehicle Structure Analysis; Mechanics of Machines; Engineering Graphics; CES Edupack Module

- Postgraduate level:
  - Failure Mechanics; Project Management; Research Project; Master Project

POSTGRADUATE SUPERVISION

- Main supervisor: Ph.D (1 completed, 1 in progress); Master by research (4 completed, 3 in progress); Master by mixed-mode (1 completed); Master by taught course (2 completed)
- Co-supervisor: Ph.D (2 in progress); Master by research (3 in progress); Master by taught course (1 completed)

SELECTED GRANTS

- International level:
  - TWAS-COMSTECH Joint Research Grants (USD8,000) – Project leader: Experimental investigation to the effect of nano-based engine oil on performance and emission characteristics of a diesel engine, 2013 – 2014
- National level:
  - FRGS (117,200) – Project leader: Synthesis of graphene film from palm kernel activated carbon using chemical vapor deposition for durability control, 2016 - 2018
  - TD-FRGS (RM443,280) – Program leader: New strategies for energy saving: The future focus on energy efficient vehicles (EEVs) in Malaysia, 2013 – 2016.

SELECTED PAPER PUBLICATIONS (Scopus H-index: 6) - 27 ISI; 28 Scopus; 1 other

1. Mahmud, D.N.F., **Abdollah, M.F.B.**, Masripan, N.A.B., Tamaldin, N., & Amiruddin, H. (2017). Frictional wear stability mechanisms of an activated carbon composite derived from palm kernel by phase transformation study, *Industrial Lubrication and Tribology*, 69(6), 945-951.
2. Shuhimi, F.F., **Abdollah, M.F.B.**, Kalam, M.A., MAsjuki, H.H., Mustafa, A., Mat Kamal, S.E., & Amiruddin, H. (2017), Effect of operating parameters and chemical treatment on the tribological performance of natural fibre composites: A review. *Particulate Science and Technology*, 35(5), 512-524.
3. Mohmad, M., **Abdollah, M.F.B.**, Tamaldin, N., & Amiruddin, H. (2017). The effect of dimple size on the tribological performances of a laser surface textured palm kernel activated carbon-epoxy composite. *Industrial Lubrication and Tribology*, 69(5), 768-777.
4. Shuhimi, F.F., **Abdollah, M.F.B.**, Kalam, M.A., Masjuki, H.H., Mustafa, A. & Amiruddin, H. (2016). Tribological characteristics comparison for oil palm fibre/epoxy and kenaf fibre/epoxy composites under dry sliding conditions. *Tribology International*, 101, pp. 247-254.

INTELECTUAL PROPERTIES

- CRLY00004439(Copyright) –Agro-waste for sustainable self-lubricating materials(granted)
- CRLY00001905 (Copyright) – Emerging Lubrication Technology for Ball Bearings (granted)
- CRLY00001905 (Copyright) – Nano-oil for a Greener Future (granted)

SELECTED AWARDS & RECOGNITIONS

- Outstanding Paper Award 2017 (Industrial Lubrication and Tribology Journal) by Emerald Publishing Limited, UK
- Best Paper Award – ISORIST'17
- Best Tribology Paper Award - APSIM2016
- Excellence Service Award 2015 - UTeM
- Winner, University Academic Award 2015 - Quality Paper Award
- Gold Award & Special Jury Award UTeMEX2015

PROFESSIONAL AFFILIATIONS

The Institution of Engineers Malaysia (MALAYSIA); Board of Engineers Malaysia (MALAYSIA), Malaysian Tribology Society (MALAYSIA); Society of Engineering Education Malaysia (MALAYSIA)