

HILMI BIN AMIRUDDIN

Senior Lecturer

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Scopus: https://www.scopus.com/authid/detail.url?authorId=56100053000 Google Scholar: https://scholar.google.com/citations?user=BmEQuHEAAAAJ&hl ResearchGate: https://www.researchgate.net/profile/Hilmi Amiruddin

Scopus h-index: 4

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Education

- M.Sc. Automotive Engineering (2006).
- B.Eng. (Mechanical-Automotive) (2003).

Field of Specialization

Engine Performance, Automotive Performance, Automotive Tribology and Energy.

Professional Experiences

Mechanical Engineer (2002 –2004) - NEC Machinery (M) Sdn. Bhd., Shah Alam, Selangor.

Teaching

Internal Combustion Engine, Automotive Design, Automotive Technology, Vehicle Electrical System and Engineering Graphic.

Postgraduate Supervision

Co-Supervision - 1 Student - Master by Research (completed).

Consultation & Community Service

KKTM, Kuantan (2007 -2008) - Automotive Lab Set-Up.

KKTM, Kuantan (2013) - Automotive Module.

MRSM Tun Ghafar Baba (2012) - SolidWorks.

Selected Professional Appointments

- Vice Treasurer (2018) The 6th Asia International Conference on Tribology (ASIATRIB2018).
- Member of Publicity & Media Bureau Committee (2016 2018) Malaysian Tribology Society.
- Vice Treasurer (2015) Malaysian International Tribology Conference (MITC) 2015.
- Member of Certificates & Awards Committee (2014) Malaysian Technical Universities Conference on Engineering and Technology (MUCET) 2014.
- Team Leader for EV Development (2012) Proton Green Mobility Challenge (PGMC) 2012.
- Chairman (2012) Perodua Eco-Challenge (PEC) 2012.

Selected Grants

- FRGS (117,200) (Member) Synthesis of graphene film from palm kernel activated carbon using chemical vapor deposition for durability control, 2016 - 2018
- TD-FRGS (RM 443,280) (Member) New Strategies For Energy Saving: The Future Focus On Energy Efficient Vehicles (EEV) In Malaysia, 2013 - 2015.
- PROTON & AIM (RM 41,000) (Member) Development EV for Proton Green Mobility Challenge (PGMC) 2012, 2012.
- PJP (RM 20,000) (Leader) Influence of Nanolubricant on Tribological Performance, Emissions and Fuel Consumption of a Diesel Engine, 2012.

Selected Publications

- Mohmad, M., Abdollah, M.F.B., Tamaldin, N., & Amiruddin, H. (2018). Frictional characteristics of laser surface textured activated carbon composite derived from palm kernel, International Journal of Advanced Manufacturing Technology, 95(5-8), 2943-2949.
- 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.
- 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.

Intellectual Properties

- CRLY00004439 (Copyright) -Agro-waste for sustainable self-lubricating materials(granted)
- CRLY00001905 (Copyright) Emerging Lubricant Technology For Ball Bearings (Granted).
- CRLY00001906 (Copyright) Nano-Oil For A Greener Future (Granted).

Selected Awards

- Outstanding Paper Award 2017 (Industrial Lubrication and Tribology Journal) by Emerald Publishing Limited, UK
- Excellence Service Award (2012) UTeM.
- Special Group Award Perodua Eco-Challenge (PEC) (2013) AAU 2013.
- Special Group Award Proton Green Mobility Challenge (PGMC) (2012) AAU
- Gold Award Nano-Oil as Lubricant for Improving Small Diesel Engine Performance (2013) - UTeMEX 2013.
- BioInnovation Silver Award Nano-Oil for a Greener Future (2013) BioMalaysia 2013.
- Silver Award Nano-Oil for a Greener Future (2013) Pecipta 2013.

Professional Affiliations

- Board of Engineers Malaysia (BEM) Malaysia.
- Malaysian Tribology Society (MYTRIBOS) Malaysia.
- Society of Automotive Engineers (SAE) USA.